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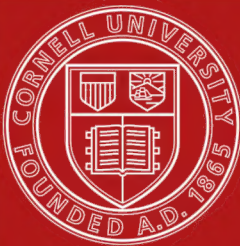
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UNION COLLEGE
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The Society for the Promotion of Research

SEMI-CENTENNIAL
ITHACA—JUNE 19-20, 1936



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SIGMA XI
QUARTER CENTURY RECORD
AND HISTORY

1886-1911

COMPILED BY
HENRY BALDWIN WARD
SECRETARY OF THE SOCIETY OF THE SIGMA XI

WITH THE ASSISTANCE OF THE
CHAPTER SECRETARIES



UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN

Ves. Leanne

W. Malott

10/30/62

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The Lakeside Press
R. K. DONNELLEY & SONS COMPANY
CHICAGO

PREFACE

The Baltimore Convention of the Society instructed the Corresponding Secretary in 1909 to prepare a complete catalog of the membership. The Washington Convention in 1911 authorized the printing of the list. The result is this book. The preparation of the record has demanded a large amount of work for which the Society is indebted first of all to the secretaries of the individual chapters. Rapid rotation in office, frequent shifts in the personnel of a chapter, and the lack of permanent records have made it difficult to ascertain accurately some of the important facts in the history of almost every chapter despite the prolonged efforts of the present-day officers and of the resident members. In one case (Ohio) all of the original records were destroyed by fire and in other chapters early record books and papers cannot be found.

The membership list of each chapter is published on the authority of the Chapter Secretary, and each chapter history is signed by him. In addition, I have spared no effort to help make each list complete and to correct all errors. The delays incident to the investigation of doubts arising in reading manuscript and proof have led to the discovery of numerous errors, and have resulted as a matter of fact in demonstrating the omission of some forty names from one chapter list; yet this has postponed the appearance of the book many months. It is too much to hope that all errors have been corrected; for any that still remain I ask the most charitable consideration of all.

By vote of the Washington Convention the list was limited to the membership on December 31, 1911, and each member was to be given the position held at that date. There have been changes, of course, but this book is more than a mere address list, and despite the changes the record indicates closely the present relations of the membership.

The examination of original records and the study of the history of Sigma Xi has proved very interesting to me and I trust the results may appeal to others. This history forms clearly an important part of the movement that has led to a new conception of educational values and a new emphasis in educational work. The men who have been leaders in Sigma Xi have been also prophets of the new education. It is fitting to chronicle their work in the establishment of the organization. But the records are scanty. In spite of extended investigation of all available sources I fear I have not done full justice to some of the men who have

unselfishly devoted time and energy to establish high ideals of scholarship in science. No one can record properly the influence of the army of less conspicuous workers who have contributed powerfully to build up the Society as it is to-day. Sigma Xi itself stands as the evidence of their loyalty to ideals.

To the numerous enthusiastic helpers who have prepared copy, checked lists and data, and done the many other tiresome things which have made this record possible, I wish to express my sincere thanks. To those who are the victims of the errors that still remain, I offer my heartfelt apologies.

HENRY B. WARD.

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FOUNDERS OF THE SOCIETY OF THE SIGMA XI
AND CHARTER MEMBERS OF THE
ALPHA CHAPTER

WILLIAM ASHER DAY

JOHN JACOB BERGER

JOHN KNICKERBACKER

WILLIAM ADDAMS MOSSCROP

WILLIAM HERMAN RILEY

EDWIN NASH SANDERSON

HARRY EZRA SMITH

FRANK VAN VLECK

CHARLES BENJAMIN WING

HENRY SHALER WILLIAMS

ACTIVE CHAPTERS OF THE SIGMA XI SOCIETY

<i>Number</i>	<i>Institution</i>	<i>Location</i>	<i>Founded</i>
1	Cornell University	Ithaca, New York	1886
2	Rensselaer Polytechnic Institute	Troy, New York	1887
3	Union College	Schenectady, New York	1887
4	The University of Kansas . .	Lawrence, Kansas	1890
5	Yale University	New Haven, Connecticut . . .	1895
6	The University of Minnesota .	Minneapolis, Minnesota . . .	1896
7	The University of Nebraska . .	Lincoln, Nebraska	1897
8	Ohio State University	Columbus, Ohio	1898
9	University of Pennsylvania . .	Philadelphia, Pennsylvania . .	1899
10	Brown University	Providence, Rhode Island . . .	1900
11	The State University of Iowa .	Iowa City, Iowa	1900
12	Leland Stanford Junior University	Palo Alto, California	1901
13	University of California	Berkeley, California	1902
14	Columbia University	New York City	1902
15	The University of Chicago . . .	Chicago, Illinois	1903
16	University of Michigan	Ann Arbor, Michigan	1903
17	University of Illinois	Urbana, Illinois	1903
18	Case School of Applied Science .	Cleveland, Ohio	1904
19	Indiana University	Bloomington, Indiana	1904
20	University of Missouri	Columbia, Missouri	1905
21	University of Colorado	Boulder, Colorado	1905
22	Northwestern University . . .	Evanston, Illinois	1906
23	Syracuse University	Syracuse, New York	1906
24	The University of Wisconsin . .	Madison, Wisconsin	1907
25	University of Washington . . .	Seattle, Washington	1907
26	Worcester Polytechnic Institute	Worcester, Massachusetts . . .	1908
27	Purdue University	Lafayette, Indiana	1909
28	Washington University	Saint Louis, Missouri	1910

DEFUNCT CHAPTERS

Beta	Stevens Institute of Technology	Hoboken, New Jersey	1887
Delta	Rutgers College	New Brunswick, New Jersey . .	1887

Note. The numbers are those used in recent statistical tables, printed in the annual convention proceedings. They indicate the order of founding the active chapters but possess no official significance.

GENERAL CONVENTIONS OF SIGMA XI

I	Ithaca	May 17, 18	1893	*4
II	Springfield	August 28, 29	1895	5
III	Toronto	August 20	1897	6
IV	Columbus	August 22, 23	1899	8
V	Denver	August 28	1901	11
VI	Washington	December 30	1902	14
VII	Philadelphia	December 29	1904	19
VIII	New York	December 31	1906	19
(IX)	Chicago	January 3	1908	26
X	Baltimore†	January 2	1909	26
XI	Boston	December 29	1909	27
XII	Minneapolis	December 30	1910	28
XIII	Washington	December 28	1911	28

* Total number of chapters in active membership in the Society and entitled to representation in the Convention.

† To avoid any possible confusion in the change from biennial to annual conventions, this is numbered the tenth, although the special convention in Chicago was not styled the ninth in the published proceedings. [From title page of the Proceedings of the Baltimore Convention.]

THE COUNCIL FOR 1911-1912

EX-OFFICIIS

<i>President</i>	HENRY TURNER EDDY (Minnesota)
<i>Vice-President</i>	JOHN MERLE COULTER (Chicago)
<i>Recording Secretary</i>	DAYTON CLARENCE MILLER (Case)
<i>Corresponding Secretary</i>	HENRY BALDWIN WARD (Illinois)
<i>Treasurer</i>	JAMES FURMAN KEMP (Columbia)
<i>Past Presidents</i>	{ HENRY SHALER WILLIAMS (1895-1901)
	{ SAMUEL WENDELL WILLISTON (1901-1904)
	{ EDWARD LEAMINGTON NICHOLS (1904-1909)
	{ FRANK OLIN MARVIN (1909-1910)

CHAPTER REPRESENTATIVES

Term Ending January 1, 1913

ALBERT DEFOREST PALMER (Brown)
JOHN CAMPBELL MERRIAM (California)
FRANCIS RAMALEY (Colorado)
STEPHEN ALFRED FORBES (Illinois)
WILLIAM KENDRICK HATT (Purdue)
CHARLES WINTHROP CROCKETT (Rensselaer)
HARRIS JOSEPH RYAN (Stanford)
FRANCIS EUGENE NIPHER (Washington University)
VICTOR LENHER (Wisconsin)
WILLIAM HERBERT HOBBS (Michigan)

Term Ending January 1, 1914

JULIUS STIEGLITZ (Chicago)
Chairman of the Council
CHARLES SUMNER HOWE (Case)
THOMAS HUSTON MACBRIDE (Iowa)
EDGAR HENRY SUMMERFIELD BAILEY (Kansas)
HENRY TURNER EDDY (Minnesota)
ELLERY WILLIAMS DAVIS (Nebraska)
WILLIAM ALFRED LOCY (Northwestern)
EDWARD ORTON, Junior (Ohio State)
ARTHUR WOOLSEY EWELL (Worcester)

Term Ending January 1, 1915

CARLETON CLARENCE CURTIS (Columbia)
HENRY SHALER WILLIAMS (Cornell)
CARL H EIGENMANN (Indiana)
OSCAR MILTON STEWART (Missouri)
EDGAR FAHS SMITH (Pennsylvania)
WILLIAM HENRY METZLER (Syracuse)
OLIN HENRY LANDRETH (Union)
HENRY LANDES (Washington State)
JOHN CLAYTON TRACY (Yale)

**THE HISTORY OF THE
SOCIETY OF THE SIGMA XI**

PART I

FOUNDING OF SIGMA XI

It is scarcely more than half a century since the work of Darwin, Huxley, Pasteur, Virchow, Lister, and a host of able and energetic co-workers forced science upon the attention of the educational world. Men now busily engaged in college teaching were students of Louis Agassiz at Harvard and many more can recall his enthusiastic campaigns for the introduction of actual scientific study into the curriculum of the schools. Many teachers, still young and productive workers, trace their inspiration for biological research to the impulse imparted by Martin at Johns Hopkins. Numberless instances of similar import might be cited from the history of associated fields of scientific activity. The study of science is a thoroughly modern pursuit. In the New World it has not yet surpassed the working period of a single generation.

It is, then, only natural that those movements which have sprung into being as a by-product of the pursuit of science can show only scanty records when tested by the count of years. Phi Beta Kappa was more than one hundred years old before Sigma Xi came into existence. But the latter has now completed a record of twenty-five years and may justly cast up the account in somewhat formal manner, both to preserve the story of these beginnings and to establish the course for future development in the light of the failures and successes of the past. Its source may be traced clearly to the confluence of two streams that, arising, one within the student influence and the other from the teaching circle of a great university, joined at an opportune moment into a current strong enough to cut its way through obstacles and to establish for itself a permanent course. It is appropriate first to chronicle the origin of the movement; then to discuss the evolution of its internal organization; and finally to review its work and the results of its influence so far as they can be ascertained.

To graduate students in geology Professor Henry S. Williams often spoke, as early as 1883 at least, of the need of an honorary society for scientific students similar to Phi Beta Kappa. He discussed this also with colleagues in natural history branches but found one of them so strongly opposed to any organization using Greek letters as its name and others also so antagonistic to recognizing differences in the grade of work prepared by different students that he received scant encouragement for the general plan. As a result he organized in the spring of 1886 a society of geological students to which were elected fourteen members, including some who are now among the most distinguished of present day geologists in this country.

Soon after this Professor Williams, still realizing the need of a society of broader and more general scope, drew up a plan for the

SIGMA XI

PREAMBLE

If stores of dry and learned lore we gain,
We keep them in the memory of the brain:
Names, things, and facts,— whate'er we knowledge call,—
There is the common ledger for them all:
And images on this cold surface traced
Make slight impression, and are soon effaced.
But we've a page, more glowing and more bright,
On which our friendship and our love to write;
That these may never from the soul depart,
We trust them to the memory of the heart.
There is no dimming, no effacement there;
Each new pulsation keeps the record clear;
Warm, golden letters all the tablet fill,
Nor lose their lustre till the heart stands still.

— *Daniel Webster.*

“ Friendship in Science. While those whose heart and soul is in their work, are coping with the great problems of Nature, let them remember that the ties of friendship cannot be investigated, but only felt. Let them join heart and hand, forming a brotherhood in Science and Engineering; thus promoting and encouraging by those strong, personal attachments of friendship, the highest and the truest advances in the scientific field. To lend aid and encouragement to those newer brothers, who likewise laboring in the same sphere are aspiring to honored positions. And in collegiate halls to award an honor, which to scientific recipients shall signify, “Come up higher.”

Therefore, with these ends and objects, the signers of this paper, do hereby agree to lend their efforts to the establishment of an organization to be publicly known as the

SOCIETY OF THE SIGMA XI //

WM. A. DAY,
Cornell University, '86.

WM. H. RILEY,
Cornell University, '86.

FRANK VAN VLECK,
Stevens Institute of
Technology '84.

H. E. SMITH,
Cornell University, '87.

WM. A. MOSSCROP,
Cornell University, '88.

CHAS. B. WING,
Cornell University, '86.

JOHN KNICKERBACKER,
Rensselaer Polytechnic
Institute, '86.

JOHN J. BERGER,
Rensselaer Polytechnic
Institute, '86.

EDWIN N. SANDERSON,
Rensselaer Polytechnic
Institute, '86.

Society of Modern Scientists. The preamble of this organization which is in a sense the forerunner of Sigma Xi, closed thus:

“Therefore we believe it is highly desirable to encourage high attainments among the future students of Cornell University and other kindred institutions by recognizing by some mark of honor those who exhibit special ability in investigating, understanding, and interpreting the facts of nature in the various branches of modern science.

“We believe that this end may be attained by an association of such graduates as understand and thoroughly appreciate these principles, in a society to be known to the outside world by some simple and appropriate badge, who shall from time to time add to their numbers from each graduating class such men as they shall deem worthy to unite with them in elevating the tone of scientific study and encouraging and honoring the scientific scholar.”

About the same time, namely shortly before the Cornell Commencement in 1886, two engineers, William A. Day, a Cornell senior, and Frank Van Vleck, Stevens Institute, 1884, the youngest member of the Cornell University faculty, planned* the formation of an honorary scientific society. In the fall they drew into the circle seven others, also all engineering students then at Cornell, and began the work of organizing such a society. They selected the name Sigma Xi, published a constitution, and had begun to keep formal records of their proceedings. The aims and ideals of the new organization are well indicated by the preamble of the first printed constitution, which is reproduced here on the opposite page.

It will be noted that this was issued before Professor Williams became connected with the organization and that the intention of making the society “a brotherhood in Science and Engineering” was expressed in words at least. Yet the membership and its activities gave reason for the conclusion expressed by many in contact with it at the time that this was strictly an engineering society.

It was inevitable that the two movements thus independently started should soon come in contact, and when Professor Williams endeavored to interest some of the engineers in his plan he learned of the movement that had been inaugurated and was brought into intimate touch with its founders. Enthusiastically he at once suggested broadening the scope of this organization so as to make it a University society and to include in it all science students worthy of membership. Finding his proposal was favorably received he generously dropped his own movement, feeling that the Sigma Xi would be a better working nucleus since its

“You may remember Wm. A. Day '86. He and myself were just before the '86 Commencement slowly toiling up the hill from town when he suggested to me the idea of a scientific Phi Beta Kappa. The thought of it at once impressed me, and we then in a way reviewed the field and the methods of organization. Together we went to my room, and before we parted we had the whole plan of organization formulated and a definite plan of campaign outlined. The following Fall we called together the gentlemen whose names now appear on the list of charter members, and with that band pushed out and achieved a success which has almost astonished the original projectors.”

(Private letter from F. Van Vleck, dated Los Angeles, 1892.)

formal organization had proceeded further than that of the Society of Modern Scientists. How very early this was in the history of Sigma Xi appears from the original minute book of the Society, which records that at the second formal meeting, not dated, the proposals of Professor Williams were accepted and at the fourth meeting, also undated, he was enrolled as a member.

Among the group of engineers the leader was undoubtedly Frank Van Vleck, a brilliant young instructor in Mechanical Engineering. He was in fact the only one of that group who was not still a student. By force of character and devotion to the idea he aroused an enthusiastic interest in the plan and spent much time and energy in working out the details of the organization. The breadth of view and catholicity of spirit which characterized the group that Van Vleck brought together is thoroughly evidenced by its reception of the idea of a greater society laid before it by Professor Williams. It was this power to grasp a greater idea and to work for its achievement that brought for their organization that success which had been sought but not found by earlier enterprises. As the first brief history of Sigma Xi says:

"The movement looking toward the organization of a scientific honorary society in colleges is not new. At various times it has been proposed and in one or two institutions societies have been formed. One of the proposals emanated from Rochester University, and it is believed that a chapter was formed there. With the idea of obtaining the co-operation of scientific colleges generally, correspondence was opened with the heads of the principal scientific institutions. It appeared that all were in the main favorable to the idea, but yet active efforts never seem to have been put forth to establish any of these proposed and possible chapters. Then later, the proposing body at Rochester seems to have disappeared altogether."

At the fifth meeting, undated but probably in the early winter of 1887, the Union Chapter was formally admitted and a committee of two, Professor Williams and Mr. Berger, was appointed to consider the establishment of a chapter at Yale. Professor Williams was also the first president elected by the Cornell chapter on May 20, 1887. Other facts tend to show distinctly that he was called into a position of leadership in the new organization. Of course, in that he remained on the ground, he enjoyed a great advantage over others of the founders, since he was able to foster and guide the movement in its formative period of growth. In fact Professor Williams was considered as one of the founders of the Society and is listed as such in the second publication it issued, where his name is signed to the same preamble and statement of aims that appears in the earliest edition already mentioned.

Professor Williams became at once the prophet of the new movement and gave voice to its spirit in his inaugural address. This was reprinted as a pamphlet entitled "The Ideal Modern Scholarship," and designated as the presidential address delivered at the inauguration of the Alpha Chapter of the Sigma Xi Society, Cornell University, Ithaca, New York, June 15, 1887. It must have been a critical moment for

the young organization, and a commonplace statement of its ideals would have resulted in its being assigned a place beside the numerous other organizations in university life that come into notice and as soon pass out, or persist if at all in uninfluential mediocrity. But this was a challenge, bold, dignified, quiet, and unanswerable. It appealed powerfully both to mind and heart; it was the call to arms. This document is so fundamental to the history of Sigma Xi that it is impossible to refrain from quoting briefly some of its most striking passages.

“We meet to-day to inaugurate a new ideal of scholarship; * * * a new ideal, not a scholarship: for we have many scholars of this modern sort to whom we may look up as our models, but to lift this modern scholarship to a place of first rank; to make it the ideal for ambitious students; to make the attainment of it an honor to be coveted beyond others; this has not before been attempted in the history of American universities.

“The old ideal, before the mind of the literary scholar, contemplates such a training of the intellect and such an acquirement of learning as shall fit the scholar to grasp quickly, accurately, and thoroughly knowledge bound up in the literature of the world, together with the power to communicate it readily, vividly, and forcefully to his fellows. This is the ideal which most students aspire after * * * and it is reasonable to ask why should anyone propose another? * * * We propose a new ideal because we * * * would follow the spirit of that scholarship, the letter of whose law binds and excludes us. * * *

“I cannot do better than express * * * what we conceive to be the essence of the scholarship which it is the purpose of our society to recognize. * *

“The first element in scholarship is learning. The real scholar sets before himself * * to know everything of something and something of everything. But the something, as well as the everything, changes * * The learning which yesterday made the scholar is ignorance to-day. The spirit of scholarship, then, demands * * modern learning. The old scholarship taught us to reverence the knowledge recorded in books; * * in the course of time, thus, authority came to be respected more than accuracy and imitation of the ancients received higher honor than adaptation to modern conditions. The modern scholar seeks knowledge as a means toward the vigorous expression of his manhood, a knowledge * * of those seething elements in the midst of which he lives, and of which he is one. * *

“The second element essential to the scholar is power of communication with his fellows. * * He must have acquired a thorough familiarity with his own language as a vehicle of thought, but besides this he must be able to use German and French; with these he can reach the civilized world.

“Thirdly, he must be a specialist. In his specialty he must think for himself, plan for himself, act for himself. Here he must rest on no one, but be himself a support for others. He must be a constant student, constantly advancing, and, making stepping stones of his dead self, rise to higher things.

“Such are a few of the elements of that scholarship which it is the

purpose of our society to recognize, foster, and develop. * * In lighting your torches we bid you light them at the brightest living altars of learning, and not at the smouldering coals of dead issues. * *

"He who only imitates the past forgets the demands of the present, * * but he who adapts himself best to modern issues, who serves best the present age, has been, will always be the successful man."

At the fifth meeting the Society thus reorganized made its first elections to membership, choosing four members of the Cornell faculty, viz., Professor R. H. Thurston, J. H. Comstock, W. R. Dudley, and C. D. Marx, together with five graduate students, Messrs. C. S. Prosser, E. H. Preswick, A. W. Smith, F. W. Simonds, and H. E. Summers.

The sixth meeting, which was the first to be dated and was held May 20, 1887, was presided over by Mr. Van Vleck, who seems to have been chairman of the Society up to that time. The final establishment of chapters at Union and Rensselaer was reported and as the first set of officers were elected the following: President, H. S. Williams; Vice-President, F. Van Vleck; Recording Secretary, C. D. Marx; Corresponding Secretary, C. B. Wing; Treasurer, A. W. Smith.

It is said that from the first the founders expected that women would be admitted when the Society should become firmly established, yet it was not until the end of 1888, that any were actually elected. At the previous meeting, which was the thirteenth of the Alpha Chapter, a motion was passed instructing a committee "to look over the list of graduates and present at the next meeting for the election of members the names of such persons as they deem desirable."

This committee reported at the fourteenth meeting on December 5, 1888, thirty-nine graduates among whom were the following five women: Mrs. Anna Botsford Comstock, '76; Mrs. Susanna Phelps Gage, '80; Mrs. Harriet Grotecloss Marx, '84; Miss Julia Warner Snow, '88, and Miss Mary Margaretta Wardwell, '88. The first woman chosen from among the undergraduates was Miss Elizabeth Harwood Boynton, a senior, now Mrs. F. V. Coville, elected at the meeting of May 13, 1889. The movement thus started does not seem to have met with unanimous approval since at the first general convention, May 17, 1893, one chapter proposed an amendment declaring women ineligible to membership in Sigma Xi. This proposal met with little favor and since then no one has questioned the policy of Sigma Xi in offering membership on equal terms to men and women.

GROWTH OF THE SOCIETY AND FORMATION OF CHAPTERS

When in 1893 the Society held its first general convention, it enrolled only four chapters. The results of six years' work appeared very meager. The Society had been conspicuously started upon its public history and the outlook in 1887 was commented upon in most sanguine terms by the Cornell student paper. It had found a leader, it had set up an ideal and that ideal had been approved. Inquiries had come from other institutions regarding the new movement. Permits for the establishment of six other chapters had been sent out from the Alpha Chapter and tentative plans had been laid for the organization of still other chapters. All this had come to pass within a single year. But here the movement seemed to pause.

Two years more passed by and the situation was unchanged. The enthusiastic and vigorous opening of the campaign had not been followed by a corresponding extension of the Society's influence. Indeed it seemed as if the movement had suffered a distinct setback. Two of the chapters which had been established went out of existence almost immediately and others to which chapter letters had been assigned never even completed their formal organization. The Society was restricted to a single state and embraced only one institution of such numerical strength that it could exercise any considerable outside influence, while other institutions of similar numbers and rank had refused to become associated with the undertaking. It looked as if the time were not ripe for such a movement, and even the leaders wondered if the new ideals were really to find a place in the educational system.

In 1889 Kansas was voted a charter. This was a start in a new field, but even after that step was taken it led to no further development for several years. The first general convention in 1893 found the Society of the Sigma Xi still consisting of three chapters in New York State and one in the west. This convention organized a standing committee on extension and spent much time in discussing the policy of the Society. The next two years were characterized by great activity, but it was almost purely internal. When the second convention assembled in 1895 the chapter roll had been increased only by the addition of a single new name, that of Yale, admitted in March of that year. The correspondence of these two years still preserved in the archives of the Society shows that inquiries concerning the aims of Sigma Xi and petitions for the establishment of new chapters had come in numbers. The idea was spreading and new centers wished to join in its propagation. But the leaders in the organization were alive to the dangers of the situation and aware of the ease with which a false move might be made. As one of them wrote: "I would like to see new chapters added, but after our experience * * I am in favor of moving slowly. Our policy should be in the direction of first establishing chapters in the best institutions where they will receive the active support of men who are of recognized standing."

In 1894 an attempt was made to organize in the Sheffield Scientific School at Yale a society to promote a high standard of scientific work. Professor Williams, who was then on the Yale faculty, heard of the movement and called the attention of the movers to the similar organization already firmly established at Cornell. At that time he found five Yale men on the roll of the Sigma Xi: Anthony, Bedell, Crehore, Eddy, and himself. On discussing the matter with the students and faculty, Professor Williams soon discovered that the desire to secure recognition for members of the Scientific School from Phi Beta Kappa had long been prominently on their minds; and appreciating that under these conditions their interest and support would be at best divided, he advised that Sigma Xi discourage any advances at that time. The class of 1894 was unable to agree on any plan of action and the matter was left undecided.

The correspondence of this period shows that the chapters of Sigma Xi were favorable to the establishment of a chapter at Yale, but only

provided that the support of the best men there could be secured so as to insure the success of the movement. The matter lay dormant for a year and was reopened by the publication in February, 1895, of an editorial in the Yale Scientific Monthly entitled, A High Stand Society in Sheff, from which the following may be quoted:

"For a number of years there has been a growing recognition of the need of a high stand society in the Scientific School. So strong was this feeling last year that a serious effort was made by '94 S. to organize one, but they were unable to carry their plans into execution before graduation. An indifference to high scholarship is far too prevalent, and any society which by high standards of admission and by development of its members should encourage a better standard of work would be an invaluable force in the Scientific School. * * *

"It would, therefore, appear that the best results would be obtained through a society formed somewhat on the same lines as Phi Beta Kappa, but with a distinctly scientific basis, whose object should be the promotion of original investigation. In organizing such an association it would be well to look around somewhat. There is a society, Sigma Xi, of just this nature existing in Cornell, Stevens, and other scientific schools, which was founded in 1886 by a Sheffield graduate, Prof. H. S. Williams, '68, now professor of geology at Yale, and which deserves careful consideration. * * *

"The principles on which Sigma Xi is founded seem to us to be sound and have succeeded where they have been put in operation. It would be well for us to profit by their experience if such a society should be organized at Yale. Whether it is best that this should be local is open to argument. Sigma Xi is sure to succeed and to grow. If it does, the same reasons which make Phi Beta Kappa valuable: its fame, its high standard, and general acceptance, will be increasingly applicable to the Scientific Society as well, and would year by year make it more valuable than a local organization. If, as we understand, they will meet us half way, would it not be well to inquire into the advisability and possibility of establishing it in Yale?"

This editorial led in a few weeks to the organization of a society and to a petition for a charter from Sigma Xi. Notice of granting the charter is contained in a letter from President C. C. Brown, dated March 8; this charter was received and formally accepted at a meeting of the charter members held in New Haven, March 16, when temporary officers were elected. On March 29 Professor Frederick Bedell of Cornell formally inaugurated the Yale chapter, and soon after wrote to President Brown: "I was much pleased with the start the Society has at New Haven, and it is more than likely that our youngest chapter will soon be one of the strongest."

Thus it was that eight years after the importance of the move had impressed itself on the original group of Sigma Xi members a chapter came into existence at Yale. It was, however, far stronger in having originated in response to an internal demand for such an organization rather than as a result of any outside influence such as that recorded in the early minutes of the Alpha Chapter of Sigma Xi. Yale was committed to Sigma Xi on her own initiative.

The establishment of the Yale chapter was a most significant factor in the history of Sigma Xi. Not only that it added to the chapter roll a new name, but also and even more, that the new chapter was located in one of the oldest, strongest, and most influential of American institutions. Moreover, its faculty was rich in men justly ranked among leaders in scientific research; its scientific laboratories, museums, and publications were widely and favorably known, and its entrance into Sigma Xi laid at once an additional and evident emphasis on original research. The Cornell chapter had now a worthy rival in the contest for scientific leadership. Moreover the Yale chapter had its own opinions and did not hesitate to express them. For instance, one of its officers writes within two weeks in regard to a chapter letter: "We will adopt Y and if anyone wishes to give it a Greek significance he can call it Upsilon; but we shall call the chapter the Yale chapter." That same spring also it prepared certain amendments to the Constitution which were presented to the convention at Springfield in August. At that convention finally the Yale representative on the committee on extension, Professor Williams, though newly appointed, formulated and presented the report of that committee, which has since been printed with the Constitution, and has been powerfully influential in shaping the development of Sigma Xi.

Yale took at once, and has held ever since, a prominent position in directing the policy of extension towards which Sigma Xi was then looking. But this influence was exerted with constant consideration for the attitude of the parent chapter at Cornell, which up to that time had borne the brunt of the fight. This cordial relation is shown clearly in the position of Yale with reference to the next great question which came up in the Society. Kansas had been granted a charter in 1889 and others of the vigorous and rapidly growing state universities of the central west had been quick to ask the value of the organization, and finding its ideals peculiarly well adapted to the demands of their environment were petitioning for charters. Yale men, like Eddy at Minnesota, were leaders in these movements and Yale influence had always been prominent in western colleges. No doubt then the Yale chapter was inclined to favor such applications, and yet one of the Yale leaders writes to one of the Cornell officers in 1896 as follows: "At Buffalo * * western men were strongly of the opinion that * * and several others of the state universities should have chapters. * * Now it seems to me that it rests much with the Cornell chapter as to whether we shall adopt one or the other policy. * * If you at Ithaca after hearing [the arguments] and considering what the effect upon the Society will likely be, if you think the time is ripe for so extending the Society and practically yourselves losing control of its policy and guidance, which you have always held from the beginning, I am ready to accept the decision and take part in the advance."

Those who had opposed expansion were now lining up in its favor. After the Yale chapter was organized, one prominent member of Sigma Xi who had voted against other petitions wrote in 1895, "I am inclined now to the opinion that some of the better western institutions should be recognized." This was a year before the inquiry quoted above

was made concerning the opinion of the Cornell chapter. What views the Alpha chapter held may be inferred from the fact that its officers appear as leaders in urging the granting of charters given in 1896 to Minnesota, in 1897 to Nebraska, and in 1898 to Ohio. Meantime the convention of 1897 at Toronto had spoken strongly in favor of extension which had been made the theme of the presidential address of that convention, delivered by Professor Williams. The current was setting strongly towards the west, and he himself favored the general policy of extension; nevertheless he wrote in that year to Cornell voicing once more the same consideration for the parent chapter:

"We are not yet fully out of the woods; there are still important problems to come up regarding the policy of the Society and I had hoped we might keep the active nucleus at Cornell. The advantage of having several members in one place is that every matter may be discussed thoroughly." But Cornell was actively committed to the policy of extending the influence of the Society as widely as possible, and no doubt also felt convinced that the welfare of the organization might safely be entrusted to the hands of the state universities with which she was in closest touch and with whose ideals she was thoroughly familiar.

The western movement halted for the moment, as Pennsylvania in 1899 and Brown in 1900 were the next to be granted charters. The same year also saw Iowa admitted; so that the close of the fifteenth year of Sigma Xi history found the organization with eleven chapters, as against only five chapters at the end of the tenth year. The growth of the Society was even more vigorous in the next succeeding period. After Stanford in 1901, California and Columbia followed in 1902; Chicago, Michigan, and Illinois were admitted in 1903; Case and Indiana in 1904, and Missouri and Colorado in 1905. Twenty years had resulted in the organization of twenty-one chapters. Northwestern and Syracuse were added in 1906. Wisconsin and Washington State in 1907, Worcester in 1908, and Purdue in 1909; finally Washington University in 1910 made the total of twenty-eight active chapters in the first quarter century of Sigma Xi history.

Of the institutions represented on the chapter roll thirteen are state universities and one, Purdue, a state technical school, while two others, Cornell and Pennsylvania, have somewhat analogous positions in eastern states. The latter are included usually, however, in the endowed institutions of university rank, in which Sigma Xi has eleven chapters. In addition there are three endowed technical schools having Sigma Xi chapters.

Geographically considered, the Society is represented by chapters in seven endowed universities and two endowed technical schools in the eastern states, by a chapter in every north central state university and in two endowed universities and two technical schools in the north central region, while two state universities and one endowed institution on the Pacific coast are represented. There are in all nine chapters in the east and nineteen west of the Alleghenies, of which three are on the shores of the Pacific. Thus far no chapters have been organized in southern institutions, but the increasing interest in re-

search throughout the south is indicative of the approaching participation of that region also in the movement.

Within the past two or three years some conservatism has been manifested in granting charters to new institutions, since it has been generally felt that the precise method of determining qualifications for election to membership needed recasting in order that different chapters might secure reasonably uniform results. In case a basis can be determined which will be as readily applied in an institution with a limited number of scientific workers and only occasional students who are qualified for membership, as in a large university or technical school affording opportunities for selection among the many students of each annual group, then sentiment seems to favor the organization of chapters in a much larger number of institutions than are yet represented. The problem is now under discussion.

The Society is so young that only one chapter has had occasion to mark the passing of years in any formal manner. On July 2, 1906, the Alpha Chapter celebrated the twentieth anniversary of the founding of that chapter and of the Society. The occasion coincided with the summer meeting of the American Association for the Advancement of Science at Ithaca. The other chapters sent official greetings and many of them appointed official delegates to convey their congratulations to the parent chapter on this occasion. The program included a public address by Dr. J. C. Branner of Stanford University, on the California Earthquake, and a dinner tendered visiting members and delegates by the Cornell Chapter.

PART II

INTERNAL ORGANIZATION

The original constitution, adopted by the founders of the Society and carefully observed by the parent organization, the Cornell chapter, provided that "a convention of the Society consisting of delegates from each chapter shall be held each year, or oftener, if appointed by the President." It also made provision for officers of the Society to be elected at the annual convention, as well as for chapter officers chosen in accordance with chapter by-laws, and stated specifically the powers and duties of these officers in a section apart from that dealing with chapter officers. In a series of sections, this document prescribed with some definiteness the manner of selecting delegates, the proper form for credentials and also an extended and definite order of business for the convention. Furthermore, one article of this original constitution was devoted to providing the means by which new chapters might be established. Thus, although it was in appearance the organic law of a single chapter only and is quoted as such in the minutes of the first convention,* this document was in fact far broader and more

*V. A. Moore, in his president's address to the Cornell Chapter, in June, 1903, expresses the same idea, when he says of the first convention, "The essential work of this meeting was the adoption of the constitution previously prepared by the Alpha Chapter."

[Announcement of the First]

CONVENTION
OF THE
Society of the Sigma Xi

HELD WITH THE
Alpha Chapter, Cornell University
May 17 and 18, 1893

Program

WEDNESDAY, MAY SEVENTEENTH

The convention will assemble for business session at 2:30 p. m.
in the Architectural Lecture Room, Lincoln Hall.

THURSDAY, MAY EIGHTEENTH

FORENOON

Second Business Session.

AFTERNOON

Third Business Session.

EVENING

Public meeting in Chemical Lecture Room, at eight o'clock.
Address by E. L. Nichols, President, upon

"PHOTOGRAPHY AS AN INSTRUMENT OF RESEARCH"

At the close of the address the delegates and the members of
the local chapter will be tendered a reception at the house of
Professor Nichols, where the initiation of newly elected members
will also take place.

significant than the constitution of any one chapter could have been. All of the facts show unmistakably that the founders of Sigma Xi had in mind a comprehensive general organization and endeavored to meet the needs of such a body.

In spite of these provisions for general meetings, the Society existed for several years merely as a group of separate chapters without rules for action or formal methods of procedure actually used for the general society. The need of a closer organization soon became apparent and at the nineteenth meeting of the Cornell Chapter, March 3, 1890, it is recorded that the matter of calling a convention was referred to the officers of the chapter with power to act. At the next meeting, April 20, the minutes record that favorable replies were reported from the chapters at Union and the Rensselaer Polytechnic, so that the committee was instructed to call a convention at Ithaca on May 16 and 17, 1890, and delegates were elected to represent the chapter. Owing to the impossibility of securing a quorum,[†] since no replies could be obtained from the chapters at Rutgers and Stevens Institute, it was subsequently decided to hold a conference of the three existing chapters.

The minutes make no mention of the outcome of these plans and the next formal reference to the problems of a general organization for the Society occurs a year and a half later. On November 14, 1892, action was taken by the Cornell Chapter looking towards revoking the charters of the two defunct chapters; and after the chapter roll had been corrected a formal call for a convention in May, 1893, was sent out in the name of the Cornell Chapter. The officers for the first convention were those of the parent chapter, in part at least, as shown in the written record of that meeting; but no records exist in the minutes of the Cornell Chapter, or in the Record Book of the general Society, to show except by inference the correction of the chapter roll, the sending of a formal call for the convention, or the organization of the convention. Undoubtedly the details were arranged by the Cornell Chapter, for it printed and distributed the program, a copy of which is reproduced on the opposite page. It also entertained the delegates at its thirty-third meeting, according to the chapter's records which are identical with the part of the Convention records. On this occasion Professor E. L. Nichols gave a public lecture after which the chapter held a reception in honor of the delegates to the Convention. Here terminates the record in the chapter minutes, but the delegates must have been inspired with enthusiastic devotion to the work of the occasion, for they attacked the problem of discussing

[†]This phrase, taken from the old records, shows distinctly that the Society at that time considered itself obligated by the provisions of the original constitution which specified for a quorum delegates from three-fourths of the active chapters. It also indicates marked consideration for the two chapters, which, so far as can be ascertained, never held but a single meeting each, and might have been eliminated from consideration under the terms of the constitution without any formal action. At the same time, since there were only three chapters in existence, it is apparent that a legal majority of the membership would have required the presence of delegates from every chapter at all times before the granting of the charter to Kansas on December 4, 1889.

and modifying, item by item, the old constitution presented by the Cornell Chapter, and succeeded in working into shape a considerable portion of the new law before adjournment was reached.

While the action noted in 1890 was the only attempt on record prior to the first formal convention of 1893 to assemble the chapters for general action, unwritten history tells of several other futile efforts to secure such a meeting, all of which resulted inevitably in "no quorum present," since two of the five original chapters had an existence on paper only. Once that the difficulties were solved, a convention actually held and a revised constitution adopted, the machinery of the general Society has operated regularly and with very little complication. A series of eight biennial conventions was held from 1893 to 1906, then a special convention in 1907, followed by annual conventions from 1908 to date. After the first convention, which was independent of any other meeting, all these gatherings have been held in conjunction with the annual meeting of the American Association for the Advancement of Science. The naturalness of this affiliation was so apparent that when the Association changed its customs and replaced the midsummer meeting by one in the holiday period, Sigma Xi followed the change and since then has met regularly in Convocation Week, and at the place chosen for the meeting of the Association. These gatherings have been unusually successful in bringing together scientific workers whose technical interests are so varied that they could hardly hope to come in contact in any other way. The Sigma Xi dinner has been a regular feature of the gathering ever since it was so successfully inaugurated at St. Louis. The address delivered then by David Starr Jordan is one of the most accessible and best known of all articles on the aims and ideals of Sigma Xi. Subsequent dinners have assumed a less formal character, but, in spite of the pressure of other engagements during the limited period actually available in Convocation Week, the social part of the Sigma Xi Convention has been greeted each year with increasing interest and pleasure. The younger men welcome gladly this opportunity to meet on an informal, fraternal basis those who have won a place in science, and the varied representation on this occasion from year to year is the means of developing a growing interest in the achievements of the Society among many who would otherwise know little or nothing regarding its work and the results thereof.

While the social side of recent conventions has been successfully developed, some criticism has been passed on the unsatisfactory character of the business meetings. The great variety of scientific programs during Convocation Week and the multiplicity of demands from special organizations render it impossible to select a time for the business session which does not conflict with numerous other attractions and duties. Delegates entrusted by their respective chapters with important responsibilities for Sigma Xi are kept away from its meeting despite their best endeavors, and after a prolonged discussion a call of the house has more than once disclosed no quorum present. The resulting confusion, loss of time and effort, and uncertainty as to the outcome, have given rise to a demand, apparently growing in strength, that the business meetings of Sigma Xi should be held distinct from those of

other organizations. In this event they might be less frequent and yet provide adequately for the business needs of the organization. The Minnesota Chapter has this year presented amendments to the Constitution of the Society calculated to introduce separate conventions and to make them biennial rather than annual. While this move is clearly justified by the experience of recent years, may it not be equally wise to retain the annual social gathering in Convocation Week which has done such good service in bringing members in touch with each other? The wide geographic and scientific range of chapters and membership demands centripetal influences strong enough to hold together the separate elements. The cohesive power of personal contact is too valuable to be lightly dispensed with. Its value to the Society is great and its inspiration to the individual member still greater.

GENERAL CONVENTIONS

The first convention of the Sigma Xi Society was held at Cornell University, being called to order on May 17, 1893, by the Vice-President of the Cornell Chapter, L. M. Dennis, who presided during the first day; whereas the President, E. L. Nichols, presided over the sessions of May 18. The group of delegates was not large; three chapters, viz., Alpha (Cornell), Theta (Union), and Iota (Kansas), were represented by delegates as given in the appended list.* The Zeta (Rensselaer Polytechnic Institute) Chapter was not represented in person, although the minutes indicate that it presented certain amendments to the proposed constitution. The records, still existing in the Record Book of the Society, are signed by J. H. Tanner, Secretary. The Convention held four sessions during two days and after receiving reports from various chapters proceeded to discuss and adopt with some minor amendments "the Constitution prepared† by the Cornell Chapter." The new Constitution was ordered printed, and the Treasurer

*FIRST CONVENTION

Officers

President—Edward Leamington Nichols (Cornell)

Vice-President—Louis Munroe Dennis (Cornell)

Secretary—John Henry Tanner (Cornell)

Delegates

Francis Cary Caldwell (Cornell)

James Hough Stoller (Union)

Charles Francis Osborne (Cornell)

John Henry Comstock (Kansas)

James McMahon (Cornell)

Ernest George Merritt (Kansas)

Charles Carroll Brown (Union)

Committee on Extension

Charles Francis Osborne (Cornell), Chairman

James McMahon (Cornell)

Edgar Henry Summerfield Bailey (Kansas)

James Hough Stoller (Union)

Palmer Chamberlain Ricketts (Rensselaer)

†As already noted, this was in reality the constitution prepared by the founders of Sigma Xi for the entire society. It had been in keeping of the parent chapter, and had been carefully observed in all matters that pertained both to general interests, and to chapter responsibilities. So far as the convention records show, it came up in its original unaltered form, and the action of the delegates was really a revision of the organic law of the Sigma Xi rather than the adoption of a constitution, even though the latter construction is placed on it in the written records.

was authorized to procure an official seal and monogram for the Society. After much discussion regarding the policy of the organization a standing committee on new chapters was appointed; this was subsequently known as the Committee on Extension. The Convention voted down an amendment declaring that women are ineligible to membership. At the close Professor C. C. Brown (Union) was elected President for two years, Professor James McMahon (Cornell) Corresponding Secretary for four years and Professor J. H. Comstock (Cornell) Treasurer for two years. The record contains no mention of the selection of the other officers, vice-president and recording secretary, which are enumerated in the Constitution.

The second biennial convention of the Society of the Sigma Xi was held at Springfield, Massachusetts, August 28 and 29, 1895, under the presidency of Professor C. C. Brown (Union). Its membership is shown in the appended list.* The President, in his report, gave a detailed statement of the founding of the Yale Chapter in March, 1895, and of correspondence regarding new chapters. He also reported his appointment of Professor H. S. Williams as the Yale representative on the Committee on Extension, which was created by the last convention. In the absence of the chairman of that committee, Professor Williams stated the views of the committee regarding the policy of the Society in founding new chapters. These remarks and the resolutions subsequently adopted by this convention were printed and distributed for the information of the Council and chapters. Both the remarks and the resolutions have in later years been incorporated into the Constitution, and are printed with it regularly as Appendix I (see page 52). They have thus come to be regarded as a distinct part of the organic law governing the organization.

The importance of this action can hardly be overestimated. For the success of the movement to extend the influence of Sigma Xi, which was just taking shape, it was essential to have a policy as firm as it was broad, both definite and unassailable. To leave the decision in granting new charters to the chance of circumstances was to open the door to all sorts of variation and to individual interpretation of unexpressed ideals and undefined standards, even where personal bias was rigidly excluded. Just at this moment Sigma Xi found its interpreter in the person of one of the founders, whose individual achieve-

*SECOND CONVENTION

Officers

President—Charles Carroll Brown (Union)
Vice-President—Frank Olin Marvin (Kansas)
Secretary—James McMahon (Cornell)

Delegates

Henry Shaler Williams (Yale)	Henry Byron Newson (Kansas)
James Hough Stoller (Union)	James McMahon (Cornell)
Olin Henry Landreth (Union)	Ernest George Merritt (Cornell)
Frank Olin Marvin (Kansas)	James McGiffert, Jr. (Rensselaer)

The Committee on Extension had been increased by the addition of Henry Shaler Williams (Yale), appointed April 3, 1895, on the organization of the Yale Chapter; otherwise its membership remained as constituted at the close of the first convention and recorded on the previous page.

ment in the field of research was of the highest type. His expression of the aims of the Society and his statement of the standards that should be observed in the admission of new chapters commanded immediate support, and have been unreservedly accepted and recognized by Sigma Xi since then.

Certain other amendments to the Constitution were adopted; these concerned the method of procedure in applying for and in establishing a new chapter, including the form of the charter.

The most important change in the organization of the Society was unquestionably the establishment of the Council. By constitutional amendment the Committee on Extension was given a permanent existence, under the name of the Council, and its powers were made definite. The officers of the Society became *ex-officio* members, and provision was made for an additional representative elected by each chapter; the elective members were to hold office for five years, and one of them was to be named as chairman by the president. The chief duty of the Council was to advise on the granting of charters; no charter was to be granted without the consent of three-fourths of the Council, as well as of three-fourths of the chapters. (See Art. II of the Constitution as amended in 1895.)

The Corresponding Secretary was instructed to print the amended constitution, together with a revised list of members, and to have a suitable letter-head devised and engraved. After tendering a hearty vote of thanks to the retiring President for his untiring efforts in behalf of the Society, the Convention adjourned *sine die*.

The third biennial Convention of the Society was held at the University of Toronto, August 20, 1897. The most important question handled by the meeting was the problem of extension. President Williams, in his address, dwelt upon the ideals of the Society and the history of the Yale chapter, and expressed the opinion that Sigma Xi, if rightly guided, would take a place of leadership in the movement under way to place science on an equal footing with literature, as a factor in the highest liberal education (See Constitution, Appendix II, page 53). The Constitution was amended so as to abolish the veto power of three negative ballots in the election of new members, since this power had been abused by irresponsible persons. Reports from the various chapters were given by delegates present. It was voted that the ordinary geographic name of the chapter might be used when desired instead of the Greek letter (See Constitution, Appendix III, page 54). The Council was ordered to prepare in printed form a summary of the remarks on extension for the information of the various chapters. The Secretary was requested to distribute type-written copies of the minutes to the different chapters. These two actions were subsequently combined in the form of a pamphlet including the full proceedings of the Convention. Since then the convention proceedings have all been issued in printed form. It was unanimously voted that the selection of the time and place for the meeting of the next Convention be referred to the five officers with power, but that "this Convention is of the opinion that it is desirable that the Convention should be held at the same time and place with the meeting of the American Association for the Advancement of Science."

The fourth biennial Convention was held at Columbus, Ohio, on August 22 and 23, 1899. Various amendments to the Constitution were made with a view to providing for the selection of new members more definitely in accordance with the general purpose of the Society, and chapters were recommended to employ the method of selection by means of a Board of Electors. The Convention fixed upon Tuesday evening of Convocation Week as the regular meeting time for future Conventions, and the place of the meeting of the American Association for the Advancement of Science as its meeting place. It also decided to plan for a reunion of the Society at the next meeting of the Association, thus bridging over the interval between the biennial conventions. Lists of officers and statistics from chapters, which were read before the meeting, were for the first time included in the published record of the Convention.

The fifth biennial Convention was held in Denver, Colorado, on August 28, 1901, Vice-president Samuel W. Williston presiding in the enforced absence of the President. The problem of choosing members was a prominent subject in the discussion, and numerous suggestions on this question are contained in the reports of chapters, and in the discussions of the Convention. The question of modifying the form of the badge was broached, and after full discussion the Council was requested to invite suggestions from chapters and individual members, and to report to the next Convention.

The Convention recorded a vote of thanks to the retiring President, Professor H. S. Williams, "in recognition of fifteen years of wise counsel and guidance since the Society's birth and six years of devoted and exemplary administration of the Presidential office." The retiring address of the President was made a part of the records of the Convention. The statistics regarding chapters added to the convention records are in this case accompanied by lists of scientific papers read at recent chapter meetings.

The sixth Convention was held December 30, 1902, at Washington, D. C., the change in time being associated with a similar change in the program of the American Association for the Advancement of Science. Much attention was again devoted to the question of the election of members and the groups of students eligible to membership, and these points were emphasized in the address of the President, Professor S. W. Williston, which was printed in full in the Convention proceedings. A part of this address has since then been printed as Appendix VI of the Constitution (see page 54). The meeting provided for a social session as well as a business meeting at the next Convention.

The seventh Convention was held December 29, 1904, at the University of Pennsylvania, President S. W. Williston in the chair. The President, in his address, emphasized the responsibilities which were laid upon the organization and also the need of more frequent and perfect communication between chapters and members. The report of the committee recommending a change in the form of the badge was favorably acted upon and steps taken to modify the method of admitting new chapters, and to make conventions of the Society annual.

The eighth biennial Convention was held at Columbia University, New York City, December 31, 1906, under the presidency of Professor E. L. Nichols. The preparation of a membership record for the entire Society was broached and an appropriation made to collect data therefor. The question of the badge was discussed at length, and the action of the Council in the selecting of a uniform official badge for future members was endorsed.

A special Convention of the Society was held at the University of Chicago, January 3, 1908, under the presidency of Professor E. L. Nichols. The Convention adopted constitutional amendments specifying the form and use of the badge, and the method of presenting a petition for the establishment of a new chapter. A report by the Cornell Chapter, which is printed in full in the Convention Proceedings, submitted for discussion the question of junior or associate members. The President's address and the report of the Corresponding Secretary are printed in the Proceedings, but statistical data regarding chapters are omitted.

The tenth Convention of the Society was held at Johns Hopkins University, January 2, 1909, President E. L. Nichols in the chair. The President in his report discussed the difficulty of arranging a time for the Convention so as to avoid conflicts with other organizations when the meeting was held in connection with Convocation Week. He reported on the progress of the Society and the establishment of new chapters. He spoke also of the desirability of forming chapters in centers of scientific activity, such as Washington, D. C., where no institution of learning offers conditions conforming with those laid down by the Society for the organization of an active chapter. The Convention authorized the preparation of a Sigma Xi catalog and the canvas of the chapters to determine the advisability of publishing the same. Amendments to the Constitution were formulated covering the voting of new chapters.

The eleventh Convention was held at the Massachusetts Institute of Technology, December 29, 1909. The address of the President, Professor F. O. Marvin, called attention prominently to the fact that the general scheme of conducting the business of the organization was not adequate for the Society with its large and widely scattered present membership and recommended more centralization of authority. Recommendations for change in the Constitution, made by various chapters in the form of a series of proposed amendments, which were printed as appendices to the Proceedings of the Convention, were referred to a Committee of Seven, with instructions to print and distribute in advance the results of their deliberations in order that action might be taken at the next Convention.

The twelfth Convention of the Society was held at the University of Minnesota, on December 30, 1910. The address of the President, Dean F. O. Marvin, discussed primarily the tremendous increase in the membership of the Society and in the geographic range of its chapters, and emphasized the seriousness of the problems which had arisen in connection with this growth. The President recommended that greater authority should be conferred upon the Council, and that conventions

should be held only periodically instead of annually and should be distinct from the meetings of other organizations. The report of the Committee of Seven was, after discussion, referred to the Chapters for further suggestion and to the Committee for revision preparatory to final consideration at the next Convention.

The Corresponding Secretary was authorized to undertake the preparation and publication, at the expense of the Society, of a Quarter Century Record under the direction of the Executive Committee. Amendments to the Constitution regarding the granting of charters were acted upon. The constitutional amendments pending were printed as an appendix to the Proceedings of the Convention.

The thirteenth Convention was held at Washington, D. C., December 28, 1911. The President, Dean Henry T. Eddy, in his address dealt primarily with the position taken with reference to the granting of new charters and the principles which had actuated the Council in its attitude towards recent petitions for charters. The President recommended that the Society hold its Conventions apart from the meetings of other organizations, that the necessary expenses of one delegate from each chapter be paid from the general treasury of the Society, and that the Council be granted much greater powers in the transaction of business. The report of the Corresponding Secretary on the Quarter Century Record and History was approved and the contract for printing the same awarded. The report of the Committee of Seven was carefully discussed and the Convention voted not to add new classes of active members, but agreed to the constitutional amendments providing for non-resident membership and for greater powers of the Council. An important step was taken when the Convention instructed the Council in considering the admission of new chapters to insure that at any petitioning institution there shall be a satisfactory and continuous output of research work. This provision is now printed with the Constitution. (App. VII, page 55.)

THE SELECTION OF MEMBERS

The methods followed in selecting members have been greatly modified in the course of the twenty-five years which have elapsed since the first candidates were chosen. Yet the change is hardly more than a natural modification due to the growth of the Society and the increase in the number of students pursuing scientific branches and hence subject to consideration. In the large universities of the present whose single department often exceeds in enrollment the entire student population of the institutions where Sigma Xi began its history, the individual consideration given in earlier years is impossible. The earlier plan did more than merely select those whose work justified the honor of election to Sigma Xi; it served to develop and clarify in the minds of the members themselves the precise ideals which Sigma Xi was endeavoring to inculcate. This plan is described as follows, by one of the early Cornell members.

"At first it was deemed necessary to discuss every candidate in the whole society. The members who recommended one must be there to give his record and make personal defense of his eligibility, and three

black-balls were sufficient to exclude him. But as the Society grew larger, this method of selection proved unfair and unsatisfactory, especially since the power of the three black-balls came near ruining the Society. There seemed to be prejudice and conspiracy year after year to keep out men from certain departments. This finally brought about a revolt of the stronger members, and the perfectly fair method of election by committee, employed since that time, has proved most satisfactory."

The difficulties outlined have been repeated many times in other chapters. In general their solution has been reached in much the same way, so this method of election is now specified in the Constitution and thus imposed upon the various chapters. While the method of electing members has not been subjected to criticism in recent years, there has been widespread discussion concerning the basis for reaching a decision in regard to the qualifications of the different types of members specified in the Constitution.

Regarding faculty elections there is little chance for any pronounced differences in opinion. The publication of research work is a specific test which can be applied as concrete evidence to establish the "noteworthy achievement as an original investigator" which the Constitution exacts of any faculty member in order to be eligible to active membership. Concerning the next group also, the specifications are equally definite since the "actual work" demanded by the Constitution to make resident graduates eligible can readily be demonstrated to a Board of Electors. But when one comes to consider undergraduates there is great diversity of opinion as to the meaning of the phrase "who has given promise of marked ability," by which the Constitution establishes the standard for elections from this group.

The present vigorous discussion of the question is by no means new. The same difficulties existed in the early days of the Society, and are vividly set forth in a letter recounting the experiences of that period:

"Those of us who remember the beginnings will recall that for several years candidates were discussed with a great deal of care by the whole chapter and often long meetings extending into the midnight hours and sometimes postponed second meetings were necessary to settle the question of proper candidates. In these meetings we conferred together and by working on concrete cases developed our ideas of the signs of real ability by which the proper undergraduate could be recognized. We fought over the 'marking system' and came to the conclusion that the marks given students for recitations and examinations were not (as then applied) a satisfactory criterion for judging the 'promise' along the lines contemplated by the Society. We learned that personal touch in the classroom and laboratory were needed to supplement the marks and that in our own classes were men who attained high marks who did not show as good promise as others lower in average standing, as measured by examination papers.

"We insisted that the marks were founded on ideals of scholarship, which as to mental ability signified little more than power of verbal memory and a close attention to language and words, and did not signify (not much at least) the ability of the student to compre-

hend what he had learned, nor his capacity to make original investigation and judgment of the truth, and could not be relied on as evidence of promise of ability to discover truth or to conduct original research successfully, which is demanded of a scientific scholar. The Yale men as the discussion progressed, caught the idea, but for some time the Society was in bad favor for presuming to question the 'marking system.' As the fundamental ideas of the Society came to be better understood, a strong chapter was developed at Yale.

"Later discussion has arisen as to the meaning of 'promise' in the Constitution. On the one side it has been urged that men should be elected only on evidence of some accomplished work, and the result of carrying out that idea would be to exclude undergraduates from election. In reply to this it has been urged that the Society, to be of most value in universities, must select the men in their formative period, and this election could be taken by them to mean that their elders recommended them to try their strength in graduate work; also that in case the Society waited for definite completed work, it would come into competition with the scientific societies in various branches of science whose membership is distinctly based upon acquirement of some real results by the path of original research.

"A move in the opposite direction has found many advocates; they have urged that in some branches of science and in technical subjects, when there are larger classes, it is very difficult to discover in the undergraduate sufficient expression of 'ability in research' to judge between one and another, so that in selecting the Society will be forced to rest purely upon marks, while in other subjects with fewer students or in fields of work where the student meets in closer relationship with his instructors in the laboratory, differences in this ability could be detected. It is urged that to apply the rules of the Society too rigidly will unduly exclude good men from the technical group."

NAME AND EMBLEMS

The key of Sigma Xi was devised by the first members, without attributing any special significance to the letters. In the first Constitution printed in 1888 the title of the Society is given in Art. I, Sec. 1, as follows:

The name of this organization shall be known under the Greek designation of the Sigma Xi Society.

Several years later Professor Williams hunted out words to form an appropriate Greek motto having the same initials. The original form of the motto was *Σπουδῶν Συνόρες* with the significance "Partners in Investigation." Both this form of the motto and this interpretation appear written in an old record under the date of May 18, 1891.

In the Constitution as revised in 1892, Art. I, Sec. 1 appears thus:

The name of this organization shall be the Society of the Sigma Xi; its motto *Σπουδῶν Συνῶρες* "Companions in Zealous Research."

The latter form of the Greek motto has been generally followed in publications of later date. It appears that this form is supported by classical authority as being the best Attic Greek.

At the Cornell Convention the Treasurer, Professor Comstock, was authorized to procure a seal and monogram, and two years later at Springfield, Professors Osborne and McMahon were instructed to devise a suitable letter head. One of the original members writes that the seal of the Society was designed by Professor Osborne, who also selected the colors that were adopted by the organization.

The original Constitution (1887) specified the conditions under which new chapters might be granted, but did not designate any chapter by name or letter, although it mentions the use of the chapter letter on the insignia of the Society. The later edition of the first Constitution (1888) opens with a list of the five chapters designated by Greek chapter letters. No reference is made to this in the text, but in the headings which introduce the list of members the names of these chapter letters appear again. No evidence has been found to show when the letters were granted or by whom they were given to these and to later chapters. Curiously, the letters used do not follow the order of the Greek alphabet or appear to be in any other way related to the names of the chapters employing them.

A clipping from an old Cornell college paper (of 1887 ?), in speaking of the early days of the Society and its rapid progress, says: "The society is in a prosperous condition and promises considerable benefit for its members. Already chapters have been established at Stevens Institute of Technology, Harvard, Rutgers, Massachusetts Institute of Technology, Rensselaer Polytechnic Institute, and Union College, and organizations of chapters are under way at several other colleges."

When the names in the list cited are compared in the order given with the letters of the Greek alphabet, provided Alpha is kept for the Cornell Chapter, each known chapter mentioned, either defunct or existing, receives its proper chapter letter with the exception of Union. Is it possible that Harvard was to have been the missing Gamma Chapter, Massachusetts Institute the missing Epsilon, and some "other college" the Eta Chapter? It is not improbable that in some details the plans of the founders were not realized. The missing chapter letters would certainly suggest that such was the case, whether or not the list cited indicates correctly the institutions at which chapters were to have been formed.

So far as old correspondence and official documents furnish any evidence, the letters which have been used in various places to refer to certain chapters are the following: Alpha, Cornell; Beta, Stevens Institute; Delta, Rutgers; Zeta, Rensselaer Polytechnic Institute; Theta, Union; Iota, Kansas; Kappa, Columbia; Mu, Minnesota; Pi, Pennsylvania; Upsilon, Yale; Omega, Ohio.

This irregularity is explained in part by unwritten records from the recollections of an early officer that "when Yale was founded its letter should have been Kappa, but the chapter objected to any letter but Y, saying that anyone who liked could call it Upsilon. The next chapter (Minnesota) followed the example of Yale and adopted the letter M; then came Nebraska with N, Ohio with O, Pennsylvania with P. Iowa wanted to take I, but could not on account of Kansas having Iota. California, Columbia, and Chicago could not all take C. This put an

end to the 'initial' business; and the convention of 1897 had in any case authorized the use of geographical names instead of Greek letters." When and why Minnesota's M became Mu, Pennsylvania's P became Pi, and Ohio's O became Omega research has not yet disclosed. The latter is particularly hard to decide since the files of the Society contain early correspondence from the Ohio Chapter asking to be assigned Omikron as a chapter letter. And the request was approved!

Within recent years several attempts have been made to establish again a list of chapter letters and to extend them to those chapters which have never been granted such designations. But no official action has been taken by any Convention, and no method is provided as yet by which any chapter may secure a chapter letter for its proper use.

The use of a designative initial would be both appropriate and convenient, but while the present list of chapters would furnish only one claimant each for B, K, O, R, U, and Y, there are two contestants each for N, P, and S, three each for I and M, four for W and six for C. An arbitrary designation would be difficult to introduce since the alphabetic sequence was abandoned so long ago and certain letters have been pre-empted. Meanwhile the newly organized chapters remain without any chapter letter although several have expressed repeatedly a desire for such a designation.

It is of course evident that the limits of either the Greek or the Roman alphabet have been reached and that if the Society is to have that development which its principles deserve, a double or even a triple letter combination would soon become necessary. The difficulties of remembering such a designation and applying it correctly are great within the organization and insurmountable outside of its circle. On the other hand a geographical or institutional designation is easily recognized and used by all; it does add an important fact for both writer and reader, and there is little ground for confusion. As one old member writes: "It may be heterodox but I like Cornell Chapter better than Alpha Chapter, although no one can fail to recognize the fitness of the latter name. Kansas Chapter has a meaning to me that Iota does not unless I consult the list which even we old members do not always have at hand; and to me, at least, Columbia sounds more dignified than Kappa. Why just think what Sigma Xi would have lost if the Yale men had been willing to submerge under some Greek initial the name of that grand institution and if we had not enjoyed the benefit of its standing in science."

PART III

THE WORK OF SIGMA XI

Of the further progress of the Society little need be said in detail. What one prominent Cornell member writes of that chapter has proved true of others generally:

"The Society had many ups and downs in its early years, but on the whole had a healthy growth, and has undoubtedly had a great and salutary effect at Cornell, for it was the plan of the founders of Sigma Xi

not merely that high standing should win election, but that powers of investigation should count for much."

The record of individual chapters is given in the historical sketches written by the chapter secretaries. The same difficulties have repeated themselves again and again in the different chapters. On the whole the new chapters have profited both by the experience of the older ones and by the increasing prestige which has accompanied the growth of the organization.

Sigma Xi has certainly done good service for American universities in emphasizing the educational and cultural value of scientific training. By stamping as the primary factor in scientific pursuits the power to investigate, to advance the limits of knowledge, it has laid the emphasis on the general good and has freed itself from the self-centered tendency of some educational movements. Locally it has often taken the lead in the discussion of educational values, and while never failing to recognize the worth of research in pure science both to the individual and to the world, it has put on an equal basis the pursuit of applied science which in the hands of modern civilized nations has prolonged human life and made it in a thousand ways infinitely better worth living. The emphasis thus laid upon service may justly be regarded as a worthy contribution to the advancement of the nation.

The Society has contributed to the encouragement of research in the first instance by adopting the research standard as its basis in the election of members. The selection is limited in the case of faculty members and of graduate students to those who have demonstrated their ability in investigation, and even among the undergraduates the clearly evidenced promise of such ability is the essential condition for nomination and election. Everyone must recognize some imperfections in the system and yet the errors in individual cases disappear when one examines the total result. There is abundant testimony that the ideals which Sigma Xi has upheld in university and college circles have stimulated many to enter upon or to train for research work in order to prove themselves worthy of membership. On the other hand membership has brought to others in equal numbers a realization of the responsibility laid upon them to uphold the high standards of Sigma Xi.

The various chapters have sought further to emphasize investigation by paying due honor to the investigator. From the outset chapters have held private meetings at stated intervals at which the programs have been devoted primarily to the presentation of the results of investigations both on the part of members and of others. Such meetings have been instrumental in putting members broadly in touch with the progress of science and in counteracting the narrow specialism so readily produced by intensive research in any one field. They have suggested new relations between different lines of work and have been a distinct stimulus to further research on the part of both speakers and hearers. The development of the social and fraternal spirit among investigators has been a useful and otherwise undischarged function in many communities.

In many of the older institutions of learning in this country it has been the custom for nearly half a century to include among the

events of commencement week a literary oration delivered by some distinguished man appearing under the auspices of Phi Beta Kappa. Minnesota was apparently the first to appreciate that the new learning deserved equally dignified presentation before the university public, and on June 3, 1896, Professor Henry T. Eddy, later President of Sigma Xi (1909-1911), delivered the first Sigma Xi Commencement Oration. The independent relation existed only a few years and was supplanted by a new arrangement. Sigma Xi undertook to alternate with Phi Beta Kappa in securing some distinguished speaker to address the university community during commencement week under the joint auspices of the two societies. The first speaker under this new plan was Professor T. C. Mendenhall, who delivered the annual address on May 31, 1899. A year later the Kansas chapter inaugurated the same plan at the University of Kansas. Since then Pennsylvania, Illinois, and perhaps other chapters, have made similar arrangements. For some years the Nebraska chapter provided for the midwinter commencement of the University an oration by some scientific man of national reputation in the same fashion as Phi Beta Kappa cared for the summer commencement by introducing a literary oration.

In connection with the regular series of private meetings some chapters have also provided open meetings with a more formal program to which the general public has been invited. The object of bringing the results of scientific investigations effectively before the community has been so well attained by such public addresses that certain chapters have endeavored to emphasize still more strongly the purpose of the Society by inviting speakers from a distance and giving to the occasion a more conspicuous character. In order to secure the advantages of united action the four chapters at Missouri, Kansas, Iowa, and Nebraska organized a circuit and provided for a group of three or four addresses to be given at each university in successive periods. The month of February was selected as the most favorable season. The first speaker in 1907 was Doctor Charles S. Minot of Harvard; in 1908, Professor R. H. Chittenden of Yale delivered the addresses; in 1909 Professor A. G. Webster of Clark, and in 1910 Professor Percival Lowell of Harvard. The plan proved so successful that other chapters desired to be included in the circuit and ultimately several such circuits were organized in the mid-west. While every university community is favored with many addresses by men of prominence and ability, these Sigma Xi lectures have met with distinct favor and the fundamental reason lies in the presentation in a form intelligible to an educated audience of the results of scientific research by men who speak with authority and are recognized as themselves investigators of first rank.

At least one chapter, Ohio, has been the recipient of funds from outside sources for the maintenance of an independent series of such lectures by scientific investigators. The results of the gift are recorded in the history of the Ohio chapter.

Although such influences have been exercised in the main in a purely local fashion and reach the great body of the people through a multitude of minute channels so that they are difficult to detect and still more difficult to measure, yet when occasion offers the training for service

and the impulse to it have manifested themselves in a more conspicuous fashion. The most striking instance of this is undoubtedly the relation of the California chapter to the invasion of bubonic plague, related so briefly and unostentatiously in the history of that chapter. It would be impossible to estimate in any adequate fashion the commercial and humanitarian results following directly from this action of the California chapter; and the published report of this work has been the means of helping scientific workers and health officials in widely scattered communities both in the United States and beyond its limits. In fact this publication has been commented on by foreign investigators of international reputation as the greatest single contribution ever published on the subject of the eradication of bubonic plague.

Record should be made of the fact, as is conspicuously shown in the history of the Society, that Sigma Xi has not accepted or followed any narrow definition of research. It has laid the emphasis on creative power in the broad sense and has recognized that the engineer in constructing a bridge or in solving some other technical problem which presents itself in the course of his professional work may manifest the same originality that is shown by the student of natural or physical science in the work more ordinarily called investigation. Sigma Xi has not been blind to the fact that the breeder who seeks to develop a new type of grain or a strain of any given variety of domesticated animal meets an unknown situation that demands as great accuracy in observing, comparing, and utilizing data, as great investigative and creative power as the chemist who strives to build up new compounds or the physiologist who experiments to analyze complicated functions into their component parts. Sigma Xi may justly trace much of her success to this power to recognize original investigation in a higher sense than is embraced in the definition of the scholastic, and may safely rest her future on this readiness to seek and to know the truth wherever it can be found.

MEMBERSHIP RECORDS

A brief pamphlet on the organization of Sigma Xi, printed in 1888 by the Alpha Chapter, gives a list of the chapters with officers and members at that date. It records five chapters with 108 members, of which Cornell had sixty, Stevens six, Rutgers twelve, Rensselaer sixteen, and Union fourteen. On 1893 the second complete list of members was published, also by the Alpha Chapter; this list included only four chapters, but the membership roll had grown to 318, distributed as follows: Cornell, 196; Rensselaer, 48; Union, 36; Kansas, 38. Since then no general record of the membership has been published up to the date of the present work.

Many partial records have been prepared by different chapters. Kansas printed in 1899 the first membership record of an individual chapter and in 1905 published a supplement list. The Yale Chapter issued a complete chapter record in 1905. In 1907 both Columbia and Union published such lists, and Minnesota did the same in 1908.

The growth of Sigma Xi in membership may be traced in the statistical tables appended to the convention proceedings. Such data were first included in the Proceedings of the Fourth Convention, 1899,

although in brief form. They have grown more complete in recent years. In the earlier years, the series is biennial only; and in some cases the figures conform to the time of printing the pamphlet, while in others they agree with the date of the convention. Unfortunately, also, these data contain evident and sometimes serious errors due to various causes, and it was difficult to get the series corrected by the chapters, as the officers responsible for them had retired and the errors were not easy to check. Hence the lists of names submitted by the various chapters for this Record were collated and the results are given in the form of tables appended to this discussion (page 32). Even this method has not yielded results that are comparable in all respects, but the figures do not depart widely from the truth, although they differ distinctly from the data given in the Proceedings of earlier date.

The lists of names printed in the Record do not afford any basis for determining the active membership and the table showing this is made from the earlier Convention Proceedings. It does not cover the time before 1899 but even then Sigma Xi had only eight chapters, in which the largest active membership was 68 at Cornell, whereas three out of the eight chapters had less than 25 members each at that date. The total working membership in that year was only 279. In 1911 every chapter of the first list but one had doubled or trebled its active membership, and the new chapters had brought the total active membership up to 1,868, a sixfold increase in twelve years.

The data on total membership are grouped under 26 calendar years, covering the 25 years of the Society's history. From this table it appears that after ten years of existence Sigma Xi listed 645 members in six chapters. Five years later it had nearly tripled its membership, having 1,559 members in twice as many chapters as before. Again in 5 years it more than tripled its membership and at the same time doubled its chapter list, having 4,090 members in 23 chapters. In the last five years the total membership has almost doubled again, reaching the grand total listed in this volume of 7,498 members in 28 chapters. Cornell is the only chapter which has yet passed the thousand mark and Yale the only other that has half as many, although four others have reached close to the five hundred limit.

The table giving the annual elections to membership enables one to determine the character of the growth made by the Society and its individual chapters. For ten years the total annual increment never reached 100, even including the charter members of newly organized chapters. It rose to 260 in the fifteenth year, to 612 in the twentieth, and to the maximum of 731 in the twenty-third, only to fall again to 659 in the twenty-fifth year. The number of graduate students elected in the first ten years was very small, probably because there were not many available. In recent years the selection of graduate students has been more marked. In this the Society has only followed the growth of graduate instruction in the institutions in its membership. Of the present total membership recorded in this volume, 601, or 8 per cent, were charter members, 3,153, or 42 per cent, were elected from the undergraduates, 2,061, or 28 per cent, were chosen as graduate students, 1,334, or 18 per cent, as faculty members, and only 349, or less than 5

per cent, as alumni members. Probably the last figures should be raised, as some chapters seem to have entered alumni members under graduate elections to membership. Even with that it appears that the chapters have not availed themselves to any large extent of the privilege of electing alumni members. The classified totals also show that the chapters differ widely in their policy, as some have elected large numbers of undergraduate members and others have confined their elections almost wholly to graduate students.

In consulting the tables it should be borne in mind that by order of the Washington Convention the chapter rolls for this Record closed with December 31, 1911. If the reader wishes to study the record of an individual chapter he will follow the horizontal line introduced by the name of the chapter. On the other hand the vertical columns show the condition of the Society in any given year and the successive totals trace the changes in the entire organization during the quarter century of its history just completed.

ACTIVE MEMBERSHIP BY CHAPTERS

No.	Chapter	1899	1901	1902	1904	1907	1908	1909	1910	1911
1	Cornell	68	75	91	82	108	127	152	140	132
2	Rensselaer	13	8	9	10	18	24	28	28	41
3	Union	10	8	10	14	11	12	12	13	12
4	Kansas	24	26	31	35	50	65	62	82	72
5	Yale	50	65	91	86	105	120	121	119	114
6	Minnesota	44	45	47	54	70	81	84	86	100
7	Nebraska	32	39	38	40	48	60	62	59	58
8	Ohio State	38	40	55	60	70	70	74	79	80
9	Pennsylvania	..	37	47	68	70	102	114	115	98
10	Brown	..	29	28	33	45	39	40	38	37
11	Iowa	..	17	22	30	47	48	47	51	63
12	Stanford	..	..	26	38	38	40*	41	55	53
13	California	..	..	57	66	85	93	77	73	69
14	Columbia	..	..	26	87	45	45	50*	50*	58
15	Chicago	..	..	..	127	257	165	135	185	166
16	Michigan	..	..	..	45	83	81	82	104	90
17	Illinois	..	..	..	48	78	90	133	154	134
18	Case	..	..	15	26	32	21	20	18	18
19	Indiana	..	..	14	34	33	34	36	30	30
20	Missouri	..	..	..	46	63	76	62	62	62
21	Colorado	..	..	..	39	32	35	30	42	42
22	Northwestern	..	..	..	24	30	39	44	33	33
23	Syracuse	..	..	..	25	33	41	44	45	45
24	Wisconsin	..	..	..	42	78	113	129	129	129
25	Washington State	..	..	..	22	24	27	37	37	37
26	Worcester	..	..	..	..	34	27	42	26	26
27	Purdue	..	..	..	..	..	20	34	42	42
28	Washington University	..	..	..	..	..	..	13	27	27
Totals by years		279	390	578	953	1488	1621	1747	1908	1868

The figures are taken from Chapter Reports as published in Convention Proceedings. *Estimated.

TOTAL MEMBERSHIP OF SIGMA XI

No.	Name	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898
Active Chapters														
1	Cornell	14	47	92	108	120	156	182	205	250	279	319	358	400
2	Rensselaer	..	16	23	28	31	38	46	53	54	61	64	69	76
3	Union	..	15	19	23	26	30	35	39	45	57	64	71	78
4	Kansas	..	..	..	..	21	25	30	37	48	53	66	73	78
5	Yale	..	..	..	..	..	..	..	..	..	44	76	102	132
6	Minnesota	..	..	..	..	..	..	..	..	..	..	38	53	73
7	Nebraska	..	..	..	..	..	..	..	..	..	..	..	32	68
8	Ohio State	..	..	..	..	..	..	..	..	..	..	..	..	57
Defunct Chapters														
*	Stevens (Beta)	..	12	..	..	..	..	..	..	..	..	..	..	..
*	Rutgers (Delta)	..	5	..	..	..	..	..	..	..	..	..	..	..
Totals by years		14	96	152	177	225	267	301	352	415	512	645	776	980

No.	Name	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911
Active Chapters														
1	Cornell	442	493	549	606	665	722	775	854	894	935	978	1011	1070
2	Rensselaer	79	84	88	94	104	114	124	132	148	163	182	195	208
3	Union	78	80	83	90	99	102	111	120	128	138	145	157	164
4	Kansas	86	99	107	125	131	147	160	173	189	212	236	271	286
5	Yale	158	188	221	257	289	330	364	410	448	488	524	551	597
6	Minnesota	87	102	119	143	160	186	210	229	252	276	308	329	334
7	Nebraska	83	100	109	117	128	143	155	179	201	224	243	266	289
8	Ohio State	59	72	80	104	119	128	172	192	216	230	268	293	334
9	Pennsylvania	..	64	95	129	156	198	234	260	287	317	348	411	440
10	Brown	..	35	50	58	69	75	86	109	116	122	136	156	168
11	Iowa	..	15	24	32	36	58	75	97	112	127	145	165	180
12	Stanford	..	..	..	34	40	84	80	88	107	125	143	163	180
13	California	..	..	16	61	86	110	134	160	181	208	232	360	393
14	Columbia	..	..	..	..	75	102	172	210	250	283	306	338	376
15	Chicago	..	..	..	..	108	170	203	231	276	307	367	381	425
16	Michigan	..	..	..	..	67	101	146	192	239	287	339	388	443
17	Illinois	..	..	..	..	40	68	98	133	188	262	364	411	467
18	Case	..	..	..	..	..	19	41	59	80	96	128	141	161
19	Indiana	..	..	..	..	..	16	37	61	70	78	85	93	101
20	Missouri	..	..	..	..	..	..	56	73	87	109	127	145	161
21	Colorado	..	..	..	..	..	..	32	45	54	69	77	85	90
22	Northwestern	..	..	..	..	..	..	..	38	54	65	83	89	90
23	Syracuse	..	..	..	..	..	..	..	27	43	51	59	73	85
24	Wisconsin	..	..	..	..	..	..	..	..	79	97	132	153	177
25	Washington State	..	..	..	..	..	..	..	..	39	50	59	64	70
26	Worcester	..	..	..	..	..	..	..	..	..	34	55	70	83
27	Purdue	..	..	..	..	..	..	..	..	..	..	24	47	72
28	Washington University	..	..	..	..	..	..	..	..	..	..	..	12	46
Totals by years		1090	1350	1559	1868	2390	2871	3483	4090	4754	5380	6111	6839	7498

ANNUAL ELECTIONS TO MEMBERSHIP

Number	Name	1886				1887				1888				1889				1890				
		Charter Members	Undergraduates	Graduate Students	Faculty Members	Alumni Members	Charter Members	Undergraduates	Graduate Students	Faculty Members	Alumni Members	Charter Members	Undergraduates	Graduate Students	Faculty Members	Alumni Members	Charter Members	Undergraduates	Graduate Students	Faculty Members	Alumni Members	
1	Active Chapters																					
2	Cornell	13			1		7	7	1	13	12	13	4	2	26		11	4		1		
3	Rensselaer						7						7						3		1	
4	Union						15							2	2			3		1		
	Kansas																		1	2	4	
	Defunct Chapters																					
	Stevens (Beta)						5	1											4	1		
	Rutgers (Delta)						5	4		3									1			
	Classified totals	13			1		32	19	1	18	12		20	6	4	26		15	7	2	1	
	Grand totals	14				82				60				25				48				
1	Active Chapters																					
2	Cornell	13	7	7			10	9	6	1		13	8	2			16	23	6			
3	Rensselaer		7					8					7					1				
4	Union		3		1			3	1	1				4				4	2			
5	Kansas		2		2			3	2				5		2			7		1	3	
6	Yale																					
	Classified totals	22	10	7	3		21	14	7	2		25	12	4			24	27	9	3		
	Grand totals	42				44				41				63				97				
1	Active Chapters																					
2	Cornell	24	15	1			23	9	7			32	7	3			24	14	3	1		
3	Rensselaer		3					5					6					5				
4	Union		7					6	1				3	3	1							
5	Kansas		6	1	4	2		5	1	1			3	1	1			5	1	1	1	
6	Yale		14	7	10	1		12	6	8			15	12	3			17	7	2		
7	Minnesota	18	11	5	4			12	2	1			15	2	3			11	1	2		
8	Nebraska						13		8	10	1		33	3				13	4			
9	Ohio State											28	5	3	21			1	1			
10	Pennsylvania																					
11	Brown																	12	24	12	16	
	Iowa																	12	1	1		
	Classified totals	18	58	35	19	3	13	57	32	28	1	28	109	31	35	1		74	26	8	2	
	Grand totals	133				131				204				110				260				
1	Active Chapters																					
2	Cornell	31	20	5			41	14	2			34	19	4	2		37	14	6			
3	Rensselaer		4					6					10					10				
4	Union		1	2				4	2	1			4	5				1	2			
5	Kansas		4	2	1	1		8	6	2	2			2				9	2	5		
6	Yale	18	10	5	1			18	12	6			16	12	3	1		27	11	3		
7	Minnesota	12	2	3				16	1	7			15	2				21	1	4		
8	Nebraska	8	1					5	3				8	2	1			14	1			
9	Ohio State	7	1					10	2	12			12	1	2			9				
10	Pennsylvania	22	3	6				20	0	8			22	4	1			23	5	14		
11	Brown	5	7		3			2	3	1	2		3	5	3			4				
	Iowa	4	2	3				5	2	1			2	1	1			8	8	6		
	Stanford						14		3	17				4	2			11				
	California	16						13	9	23			7	4	14			11	4	9		
	Columbia											22	1	52				8	17	1		
	Chicago											62	39	6	1			1	49	10	2	
	Michigan											36	3	5	23			20	4	1		
	Illinois											39		1				23	4	1		
	Case																17	1				
	Indiana																14					
	Missouri																					
	Colorado																					
	Classified totals	16	115	49	25	4	14	144	65	81	5	159	120	161	68	5		312	134	75	16	
	Grand totals	209				309				522				481				612				

ANNUAL ELECTIONS TO MEMBERSHIP—Continued

Numbers	Name	1906				1907				1908				1909							
		Charter Members	Undergraduates	Grad'te Students	Faculty Members	Alumni Members	Charter Members	Undergraduates	Grad'te Students	Faculty Members	Alumni Members	Charter Members	Undergraduates	Grad'te Students	Faculty Members	Alumni Members	Charter Members	Undergraduates	Grad'te Students	Faculty Members	Alumni Members
Active Chapters																					
1	Cornell	48	19	12			12	13	13	2		7	26	7	1		7	30	6	4	
2	Rensselaer	8					16					12					15				
3	Union	11	9	1			17	13	1			16	36	1			11	6			
4	Kansas	11	1	1			10	1	1			24	13	1			21	13	9		1
5	Yale	24	16	6			17	13	6			16	36	13			24	12	6		
6	Minnesota	17	11	1			14	10	6			17	25	13			24	12	6		
7	Nebraska	18	13	3			23	11	6			21	36	13			16	5	6		2
8	Ohio State	11	7	1			16	10	6			12	21	10			23	6	4		
9	Pennsylvania	15	8				18	18	6			18	10				23	6	4		
10	Brown	15	5	5		9	6	1				11	4				13	6			
11	Iowa	10	10				7					4	4				11	4			
12	Stanford					3						4	4				11	4			
13	California	11	11	1			11			13	3	14	6	3	1		12	5	7		2
14	Columbia	15	23	3		1	24	17		3		16	15	1	1		11	10	2		
15	Chicago	27	27				40	1		2		29	1				59	1			
16	Michigan	30	6	10			37	8				38	5	5			36	6	10		
17	Illinois	19	5	11			34	16				37	5	3	4		40	25	24		4
18	Case	12	6			5	8			5		11	3	2			16	7			12
19	Indiana	6	7	1		1	7					11	5	11			12	3	3		
20	Missouri	6	7	4			1					5	11	6			3	3	2		
21	Colorado		4	4			7					3	4				5	6	7		1
22	Northwestern	27	7				1					2	5				5	5	2		
23	Syracuse	16	3	6		2						1	16				2	22	11		
24	Wisconsin						42					5	1	1	1		5	1	3		
25	Washington State						27	3				14	1	4			14	3	3		
26	Worcester										18				1		3	3	3		
27	Purdue															21					
Classified totals		43	261	182	100	21	69	255	165	142	33	18	279	166	148	15	21	304	233	139	34
Grand totals		607					664					626					731				
		1910					1911					Totals, Classified					Grand Totals				
		Charter Members	Undergraduates	Graduate Students	Faculty Members	Alumni Members	Charter Members	Undergraduates	Graduate Students	Faculty Members	Alumni Members	Charter Members	Undergraduates	Graduate Students	Faculty Members	Alumni Members					
1	Cornell		2	27	3	1		15	38	5	1	13	516	363	129	49	1070				
2	Rensselaer		12	9				13				7	185		16		208				
3	Union		19	9	2	1		16			1	15	6	98	38	7	164				
4	Kansas		18	4	2			5				5	172	31	55	23	286				
5	Yale		18	7				26	14	6		20	323	167	85	2	597				
6	Minnesota		15	3	2			8	3	1		18	231	36	48	1	334				
7	Nebraska		18	12	10	1		6	10		3	13	80	147	39	8	287				
8	Ohio State		8	11	6			19		2	10	28	154	44	63	35	324				
9	Pennsylvania		18	4	15	26		26	1	2		12	254	58	90	26	440				
10	Brown		8	12				11	3	1		25	73	44	9	14	168				
11	Iowa		10	4				13	3	1		12	84	47	39		182				
12	Stanford		1	13	2	4		12	11	6		14	7	74	45	40	180				
13	California		17	106	5			9				16	118	155	95	9	393				
14	Columbia		20	10	2			25	5	8		22	132	174	15	33	376				
15	Chicago		13	1				1	38	5		62	4	325	29	5	425				
16	Michigan		34	9	6			38	10	6	1	36	269	69	77	2	443				
17	Illinois		23	6	18			27	12	17		39	231	67	126	4	467				
18	Case		10		3			12	7	4	4	17	77		23	44	161				
19	Indiana			3	5			7	1			14	16	41	25	5	101				
20	Missouri		11	4	6			9	3	1		23	62	27	48	1	161				
21	Colorado		3	1	4			3		2		14	18	24	34		90				
22	Northwestern		6							1		27	27	19	14	3	90				
23	Syracuse			10	4				8	4		16		35	29	5	85				
24	Wisconsin			9	8	4			3	17	4	42		15	96	24	177				
25	Washington State		2	2				6				27	21	7	14	1	73				
26	Worcester		13		2			11		2		18	52	4	8	1	80				
27	Purdue		9		14			12	13			21	21		30	0	72				
28	Washington University		12					15		7		12	15		12	7	46				
Defunct Chapters																					
	Stevens (Beta)																				
	Rutgers (Delta)																				
Classified totals		12	259	279	138	40		324	181	123	31	601	3153	2061	1334	349					
Grand totals		728					659										7493				

OFFICERS OF THE GENERAL SOCIETY

PRESIDENTS OF SIGMA XI

EDWARD LEAMINGTON NICHOLS	(Cornell)	1893
CHARLES CAROLL BROWN	(Union)	1893-1895
HENRY SHALER WILLIAMS	(Yale)	1895-1901
SAMUEL WENDELL WILLISTON	(Kansas)	1901-1904
EDWARD LEAMINGTON NICHOLS	(Cornell)	1904-1909
FRANK OLIN MARVIN	(Kansas)	1909-1910
HENRY TURNER EDDY	(Minnesota)	1910

The records do not show that the General Society had any regularly constituted officers before the First Convention at Ithaca in 1893.

VICE-PRESIDENTS OF SIGMA XI

LOUIS MUNROE DENNIS	(Cornell)	1893
FRANK OLIN MARVIN	(Kansas)	1895-1897
HENRY TURNER EDDY	(Minnesota)	1897-1899
SAMUEL WENDELL WILLISTON	(Kansas)	1899-1901
HENRY TURNER EDDY	(Minnesota)	1901-1904
THOMAS HUSTON MACBRIDE	(Iowa)	1904-1909
FRANCIS CARY CALDWELL	(Ohio)	1909-1910
JOHN MERLE COULTER	(Chicago)	1910

RECORDING SECRETARIES OF SIGMA XI

JOHN HENRY TANNER (Cornell), at the Ithaca Convention in 1893.
 JAMES McMAHON (Cornell), at the Springfield Convention in 1895.
 JAMES McMAHON (Cornell), *pro tempore*, vice James McGiffert, Junior (Rensselaer), absent, at the Toronto Convention in 1897.
 FRANCIS CARY CALDWELL (Ohio State), *pro tempore*, vice Elton David Walker (Union) absent, at the Columbus Convention in 1899.
 JAMES McMAHON (Cornell), *pro tempore*, vice Francis Cary Caldwell (Ohio State) absent, at the Denver Convention in 1901.
 EDWIN SCHOFIELD CRAWLEY (Pennsylvania), at the Washington Convention in 1902, and at the Philadelphia Convention in 1904.
 HERBERT OSBORN (Ohio State), vice William Trelease (Cornell) resigned, at the New York Convention in 1906.
 HERBERT OSBORN (Ohio State), at the Chicago Convention in 1908 and at the Baltimore Convention in 1909.
 JOHN CLAYTON TRACY (Yale), at the Boston Convention in 1909.
 FRANCIS CLINTON SHENEHON (Minnesota), *pro tempore*, vice John Clayton Tracy (Yale) absent, at the Minneapolis Convention in 1910.
 DAYTON CLARENCE MILLER (Case), at the Washington Convention in 1911.

CORRESPONDING SECRETARIES OF SIGMA XI

JAMES McMAHON	(Cornell)	1893-1904
HENRY BALDWIN WARD	(Illinois)	1904

TREASURERS OF SIGMA XI

JOHN HENRY COMSTOCK	(Cornell)	1893-1895
JAMES HOUGH STOLLER	(Union)	1895-1897
HENRY BYRON NEWSON	(Kansas)	1897-1899
ELLERY WILLIAMS DAVIS	(Nebraska)	1899-1901
LAENAS CLIFFORD WELD	(Iowa)	1901-1904
LUCIEN MARCUS UNDERWOOD	(Columbia)	1904-1908
JAMES FURMAN KEMP	(Columbia)	1908

COUNCIL OF THE SOCIETY OF THE SIGMA XI¹

THE COUNCIL FOR 1895-1897

EX-OFFICIIS

<i>President</i>	HENRY SHALER WILLIAMS (Yale)
<i>Vice-President</i>	FRANK OLIN MARVIN (Kansas)
<i>Recording Secretary</i>	JAMES MCGIFFERT, Junior (Rensselaer)
<i>Treasurer</i>	JAMES HOUGH STOLLER (Union)
<i>Corresponding Secretary</i>	JAMES MCMAHON (Cornell)

CHAPTER REPRESENTATIVES

CHARLES FRANCIS OSBORNE (Cornell)
<i>Chairman of the Council</i>
CHARLES WINTHROP CROCKETT (Rensselaer)
CHARLES SMITH PROSSER (Union)
SAMUEL WENDELL WILLISTON (Kansas)
LOUIS VALENTINE PIRSSON (Yale)

THE COUNCIL FOR 1897-1899

EX-OFFICIIS

<i>President</i>	HENRY SHALER WILLIAMS (Yale)
<i>Vice-President</i>	HENRY TURNER EDDY (Minnesota)
<i>Recording Secretary</i>	ELTON DAVID WALKER (Union)
<i>Corresponding Secretary</i>	JAMES MCMAHON (Cornell)
<i>Treasurer</i>	HENRY BYRON NEWSON (Kansas)

CHAPTER REPRESENTATIVES

EDWARD LEAMINGTON NICHOLS (Cornell)
<i>Chairman of the Council</i>
CHARLES WINTHROP CROCKETT (Rensselaer)
CHARLES SMITH PROSSER (Union)
SAMUEL WENDELL WILLISTON (Kansas)
HENRY SHALER WILLIAMS (Yale)
WILLIAM RICKETSON HOAG (Minnesota)

¹ The Council was first provided for in amendments to the Constitution adopted at the Springfield Convention in 1895. The term of members elected by chapters was then made five years. As new chapters were installed and new councilors elected, the membership of the Council changed irregularly. The new Constitution, adopted December 28, 1911, fixed the term of a councilor at three years and provided that one third of the members retire each year.

THE COUNCIL FOR 1899-1901

EX-OFFICIIS

<i>President</i>	HENRY SHALER WILLIAMS (Yale)
<i>Vice-President</i>	SAMUEL WENDELL WILLISTON (Kansas)
<i>Recording Secretary</i>	FRANCIS CARY CALDWELL (Ohio)
<i>Corresponding Secretary</i>	JAMES McMAHON (Cornell)
<i>Treasurer</i>	ELLERY WILLIAMS DAVIS (Nebraska)

CHAPTER REPRESENTATIVES

EDWARD LEAMINGTON NICHOLS (Cornell)
<i>Chairman of the Council</i>
CHARLES WINTHROP CROCKETT (Rensselaer)
MAURICE PERKINS (Union)
ERASMUS HAWORTH (Kansas)
LOUIS VALENTINE PIRSSON (Yale)
WILLIAM RICKETSON HOAG (Minnesota)
CHARLES EDWIN BESSEY (Nebraska)
ALBERT MARTIN BLEILE (Ohio)

THE COUNCIL FOR 1901-1902

EX-OFFICIIS

<i>President</i>	SAMUEL WENDELL WILLISTON (Kansas)
<i>Vice-President</i>	HENRY TURNER EDDY (Minnesota)
<i>Recording Secretary</i>	EDWIN SCHOFIELD CRAWLEY (Pennsylvania)
<i>Corresponding Secretary</i>	JAMES McMAHON (Cornell)
<i>Treasurer</i>	LAENAS GIFFORD WELD (Iowa)

CHAPTER REPRESENTATIVES

EDWARD LEAMINGTON NICHOLS (Cornell)
<i>Chairman of the Council</i>
CHARLES WINTHROP CROCKETT (Rensselaer)
MAURICE PERKINS (Union)
ERASMUS HAWORTH (Kansas)
LOUIS VALENTINE PIRSSON (Yale)
HENRY TURNER EDDY (Minnesota)
CHARLES EDWIN BESSEY (Nebraska)
ALBERT MARTIN BLEILE (Ohio State)
EDGAR FAHS SMITH (Pennsylvania)
JOHN EDWARD HILL (Brown)
SAMUEL CALVIN (Iowa)

THE COUNCIL FOR 1902-1904

EX-OFFICIIS

<i>President</i>	SAMUEL WENDELL WILLISTON (Kansas)
<i>Vice-President</i>	HENRY TURNER EDDY (Minnesota)
<i>Recording Secretary</i>	EDWARD SCHOFIELD CRAWLEY (Pennsylvania)
<i>Corresponding Secretary</i>	JAMES McMAHON (Cornell)
<i>Treasurer</i>	LAENAS GIFFORD WELD (Iowa)

CHAPTER REPRESENTATIVES

EDWARD LEAMINGTON NICHOLS (Cornell)
Chairman of the Council
 CHARLES WINTHROP CROCKETT (Rensselaer)
 JAMES REAGLES TRUAX (Union)
 FRANK OLIN MARVIN (Kansas)
 LOUIS VALENTINE PIRSSON (Yale)
 HENRY TURNER EDDY (Minnesota)
 CHARLES EDWIN BESSEY (Nebraska)
 ALBERT MARTIN BLEILE (Ohio State)
 EDGAR FAHS SMITH (Pennsylvania)
 JOHN EDWARD HILL (Brown)
 SAMUEL CALVIN (Iowa)
 GEORGE ABRAM MILLER (Stanford)
 WILLIAM EMERSON RITTER (California)
 HENRY EDWARD CRAMPTON (Columbia)

THE COUNCIL FOR 1904-1906

EX-OFFICIIS

President EDWARD LEAMINGTON NICHOLS (Cornell)
Vice-President THOMAS HUSTON MACBRIDE (Iowa)
Recording Secretary . . . WILLIAM TRELEASE (Cornell)
Corresponding Secretary . HENRY BALDWIN WARD (Nebraska)
Treasurer LUCIEN MARCUS UNDERWOOD (Columbia)

CHAPTER REPRESENTATIVES

FRANK OLIN MARVIN (Kansas)
Chairman of the Council
 HENRY SHALER WILLIAMS (Cornell)
 CHARLES WINTHROP CROCKETT (Rensselaer)
 OLIN HENRY LANDRETH (Union)
 JOHN CLAYTON TRACY (Yale)
 HENRY TURNER EDDY (Minnesota)
 ELLERY WILLIAMS DAVIS (Nebraska)
 CHARLES SMITH PROSSER (Ohio State)
 EDGAR FAHS SMITH (Pennsylvania)
 JOHN EDWARD HILL (Brown)
 SAMUEL CALVIN (Iowa)
 GEORGE ABRAM MILLER (Stanford)
 WILLIAM EMERSON RITTER (California)
 HENRY EDWARD CRAMPTON (Columbia)
 JOSEPH PAXSON IDDINGS (Chicago)
 FREDERICK CHARLES NEWCOMBE (Michigan)
 MORGAN BROOKS (Illinois)
 CHARLES SUMNER HOWE (Case)
 CARL H EIGENMANN (Indiana)

THE COUNCIL FOR 1907-1909

EX-OFFICIIS

<i>President</i>	EDWARD LEAMINGTON NICHOLS (Cornell)
<i>Vice-President</i>	THOMAS HUSTON MACBRIDE (Iowa)
<i>Recording Secretary</i>	HERBERT OSBORN (Ohio State)
<i>Corresponding Secretary</i>	HENRY BALDWIN WARD (Nebraska)
<i>Treasurer</i>	LUCIEN MARCUS UNDERWOOD (Columbia)

CHAPTER REPRESENTATIVES

FRANK OLIN MARVIN (Kansas)

Chairman of the Council

HENRY SHALER WILLIAMS (Cornell)

CHARLES WINTHROP CROCKETT (Rensselaer)

OLIN HENRY LANDRETH (Union)

JOHN CLAYTON TRACY (Yale)

HENRY TURNER EDDY (Minnesota)

ELLERY WILLIAMS DAVIS (Nebraska)

WILLIAM MCPHERSON (Ohio State)

EDGAR FAHS SMITH (Pennsylvania)

JOHN EDWARD HILL (Brown)

SAMUEL CALVIN (Iowa)

VERNON LYMAN KELLOGG (Stanford)

WILLIAM EMERSON RITTER (California)

HENRY EDWARD CRAMPTON (Columbia)

SAMUEL WENDELL WILLISTON (Chicago)

FREDERICK CHARLES NEWCOMBE (Michigan)

MORGAN BROOKS (Illinois)

CHARLES SUMNER HOWE (Case)

CARL H EIGENMANN (Indiana)

OSCAR MILTON STEWART (Missouri)

JOHN BERNARD EKELEY (Colorado)

CHARLES BEACH ATWELL (Northwestern)

CHARLES WESLEY HARGITT (Syracuse)

VICTOR LENHER (Wisconsin)

HENRY LANDES (Washington State)

THE COUNCIL FOR 1909-1910

EX-OFFICIIS

<i>President</i>	FRANK OLIN MARVIN (Kansas)
<i>Vice-President</i>	FRANCIS CARY CALDWELL (Ohio State)
<i>Recording Secretary</i>	JOHN CLAYTON TRACY (Yale)
<i>Corresponding Secretary</i>	HENRY BALDWIN WARD (Illinois)
<i>Treasurer</i>	JAMES FURMAN KEMP (Columbia)

CHAPTER REPRESENTATIVES

CHARLES SUMNER HOWE (Case)
<i>Chairman of the Council</i>
HENRY SHALER WILLIAMS (Cornell)
CHARLES WINTHROP CROCKETT (Rensselaer)
OLIN HENRY LANDRETH (Union)
EDGAR HENRY SUMMERFIELD BAILEY (Kansas)
JOHN CLAYTON TRACY (Yale)
HENRY TURNER EDDY (Minnesota)
ELLERY WILLIAMS DAVIS (Nebraska)
WILLIAM MCPHERSON (Ohio State)
EDGAR FAHS SMITH (Pennsylvania)
JOHN EDWARD HILL (Brown)
SAMUEL CALVIN (Iowa)
VERNON LYMAN KELLOGG (Stanford)
WILLIAM EMERSON RITTER (California)
CARLETON CLARENCE CURTIS (Columbia)
JULIUS STIEGLITZ (Chicago)
WILLIAM HERBERT HOBBS (Michigan)
STEPHEN ALFRED FORBES (Illinois)
CARL H EIGENMANN (Indiana)
OSCAR MILTON STEWART (Missouri)
RUSSELL D GEORGE (Colorado)
CHARLES BEACH ATWELL (Northwestern)
CHARLES WESLEY HARGITT (Syracuse)
VICTOR LENHER (Wisconsin)
HENRY LANDES (Washington State)
ARTHUR WOOLSEY EWELL (Worcester)
WILLIAM KENDRICK HATT (Purdue)

THE COUNCIL FOR 1910-1911

EX-OFFICIIS

<i>President</i>	HENRY TURNER EDDY (Minnesota)
<i>Vice-President</i>	JOHN MERLE COULTER (Chicago)
<i>Recording Secretary</i>	DAYTON CLARENCE MILLER (Case)
<i>Corresponding Secretary</i>	HENRY BALDWIN WARD (Illinois)
<i>Treasurer</i>	JAMES FURMAN KEMP (Columbia)
<i>Past Presidents</i>	<div style="display: inline-block; vertical-align: middle;"> <div style="display: inline-block; vertical-align: middle; font-size: 3em; line-height: 1;">{</div> <div style="display: inline-block; vertical-align: middle;"> HENRY SHALER WILLIAMS (1895-1901) SAMUEL WENDELL WILLISTON (1901-1904) EDWARD LEAMINGTON NICHOLS (1904-1909) FRANK OLIN MARVIN (1909-1910) </div> </div>

CHAPTER REPRESENTATIVES

JULIUS STIEGLITZ (Chicago)
Chairman of the Council
 HENRY SHALER WILLIAMS (Cornell)
 CHARLES WINTHROP CROCKETT (Rensselaer)
 OLIN HENRY LANDRETH (Union)
 EDGAR HENRY SUMMERFIELD BAILEY (Kansas)
 JOHN CLAYTON TRACY (Yale)
 HENRY TURNER EDDY (Minnesota)
 ELLERY WILLIAMS DAVIS (Nebraska)
 WILLIAM MCPHERSON (Ohio State)
 EDGAR FAHS SMITH (Pennsylvania)
 JOHN EDWARD HILL (Brown)
 SAMUEL CALVIN (Iowa)
 GUIDO HUGH MARX (Stanford)
 JOHN CAMPBELL MERRIAM (California)
 CARLETON CLARENCE CURTIS (Columbia)
 WILLIAM HERBERT HOBBS (Michigan)
 STEPHEN ALFRED FORBES (Illinois)
 CHARLES SUMNER HOWE (Case)
 CARL H EIGENMANN (Indiana)
 OSCAR MILTON STEWART (Missouri)
 RUSSELL D GEORGE (Colorado)
 CHARLES BEACH ATWELL (Northwestern)
 CHARLES WESLEY HARGITT (Syracuse)
 VICTOR LENHER (Wisconsin)
 HENRY LANDES (Washington State)
 ARTHUR WOOLSEY EWELL (Worcester)
 WILLIAM KENDRICK HATT (Purdue)
 FRANCIS EUGENE NIPHER (Washington University)

The list of present officers including the Council is printed on page x.

LIST OF PUBLICATIONS BY THE SIGMA XI SOCIETY

Sigma Xi. The Preamble [Signed by nine original student-members of the Society of the Sigma Xi] and Constitution. n. p. n. d. 13 pp. [Ithaca, N. Y., 1887]

Probably the first printed constitution, published before Professor Williams took part. Preamble and Salutatory reprinted here (p. 2).

The Organization of the Scientific Society of the Sigma Xi. Frank Van Vleck, J. Henry Comstock, C. D. Marx, Committee on Publication, Cornell University, Ithaca, N. Y. Andrus and Church, 1888, 28 pp.

Contains list of chapters; discussion of the purpose, history, and organization of Sigma Xi; list of members and officers of various chapters; publications of the Sigma Xi Society.

The Organization of the Scientific Society of the Sigma Xi. Frank Van Vleck, J. Henry Comstock, C. D. Marx, Committee on Publication, Cornell University, Ithaca, N. Y. Andrus and Church, 1888, 40 pp.

Same as preceding except that printed lists of new members are intercalated between pp. 14 and 15 and pp. 16 and 17; and Constitution, paged independently (10 pp.), between Membership Lists and Publications of the Sigma Xi Society.

Constitution of the Society of the Sigma Xi. Revised 1892. E. D. Norton, Printer, [Ithaca, N. Y.] 1892. 16 pp.

Constitution of the Society of the Sigma Xi. Revised and Adopted at Convention, May 18, 1893. Andrus and Church, [Ithaca, N. Y.] 1893. 18 pp.

List of Members of the Society of the Sigma Xi. [Ithaca, N. Y., 1893.] 68 pp.

Officers of the General Society, list of members arranged by chapters, with brief biography and list of publications for each, also with chapter officers.

Constitution of the Society of the Sigma Xi. As amended in Convention, August 29, 1895. Andrus and Church, [Ithaca, N. Y.] 1895. 20 pp.

Sigma Xi. Report on Extension. Presented to the Springfield Convention, Aug. 29, 1895, by the Committee appointed in Convention May 18, 1893. (Extract from the Records. Printed for the Information of the Council and Chapters.) n.p.n.d. [1896.] 4 pp.

Proposed Amendments to the Constitution of the Sigma Xi Society, and to the By-laws of the Alpha Chapter. Report of the Special Committee, presented Feb. 27, 1897. n. p. n. d. 4pp.

Amendments to the Constitution of the Society of the Sigma Xi, recommended by the committee to whom Prof. Comstock's resolution and other resolutions relating to the same subject were referred for consideration and report.

Amendments to the By-Laws recommended for adoption in case the proposed amendments to the Constitution should be adopted by the Society. (These constitutional amendments were passed unanimously by the Third Convention in August, 1897.)

- Sigma Xi. Proceedings of the Third Convention. Including a Summary of the Discussion on Extension. Toronto, August 20, 1897. (Printed by order of the Convention, for the Information of the Chapters.) n.p.n.d. 8 pp.
- Sigma Xi. Proceedings of the Fourth Convention. Held at Columbus, August 22, 23, 1899. (Printed by order of the Convention, for the Information of the Chapters.) [Ithaca, N. Y.] n.d. 12 pp.
- Constitution of the Society of the Sigma Xi as amended in Convention August 23, 1899. Andrus and Church [Ithaca, N. Y.] 1900. 28 pp.
- Constitution of the Society of the Sigma Xi. As amended in Convention August 23, 1899. n.p.n.d. Andrus and Church [Ithaca, N. Y.] 1901. 27 pp.
- Advance Sheets of "Appendix to Proceedings" [of Fifth Convention]. (For Information of Convention.) n.p.n.d. 8 pp.
Being appendix pp. 17-22 inc. of Proceedings of the Fifth Convention.
- Sigma Xi. Proceedings of the Fifth Convention. Held at Denver, August 28, 1901. (Printed by order of the Convention for the Information of the Chapters.) [Ithaca, N. Y.] n.d. 24 pp.
- Sigma Xi. Proceedings of Sixth Convention. Held at Washington, D. C., December 30, 1902. n.p.n.d. 16 pp.
Including information of Chicago and Michigan Chapters organized May and June, 1903.
- Sigma Xi. Proceedings of Seventh Convention. Held at Philadelphia, Pa., December 29, 1904. [Philadelphia, Pa.] n.d. 16 pp.
- Constitution of the Society of the Sigma Xi. As amended in Convention August 23, 1899. Andrus and Church, [Ithaca, N. Y.] 1904. 30 pp.
- Proceedings of Eighth Biennial Convention of the Society of the Sigma Xi. New York, December 31, 1906. With Statistic of the Chapters [for 1906-07] and List of Officers for 1907. n.p.n.d. 8 pp.
Published in December 1907; data corrected to November.
- Constitution of the Society of the Sigma Xi. As amended in Convention August 23, 1899. n.p.n.d. 32 pp. [Lincoln, Neb.] With six appendices.
- Proceedings of the Special Meeting of the Society of the Sigma Xi. Chicago, January 3, 1908. n.p. March, 1908. 16 pp.
On Page 3 of Proceedings of Tenth Convention of the Society of the Sigma Xi is this footnote: To avoid any possible confusion in the change from biennial to annual conventions this is numbered the tenth, although the special convention in Chicago was not styled the ninth in the published proceedings.
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B[ENJAMIN], M[ARCUS]

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CONSTITUTION
OF THE
SOCIETY OF THE SIGMA XI

AS AMENDED DECEMBER 28, 1911

ARTICLE I

NAME AND OBJECT

SECTION 1. The name of this organization shall be the SOCIETY OF THE SIGMA XI; its motto Σπουδῶν ἑνωμένες Companions in Zealous Research.

SEC. 2. The object of this Society shall be to encourage original investigation in science, pure and applied, by meeting for the discussion of scientific subjects; by the publication of such scientific matter as may be deemed desirable; by establishing fraternal relations among investigators in the scientific centers; and by granting the privilege of membership to such students as during their college course have given special promise of future achievement.

ARTICLE II

CHAPTERS

SECTION 1. Chapters may be established at any institution offering courses of study in those subjects which it is the object of this Society to promote, provided that these courses are substantially equivalent to the usual four-year college course. [See Appendix I, II.]

SEC. 2. Alumni chapters may be established at any place other than an institution of learning on the application of not fewer than five alumni members of collegiate chapters; and such alumni chapters shall have all the powers and privileges of collegiate chapters except as hereinafter provided.

SEC. 3. A petition for a charter for the establishment of a new chapter shall be communicated to the president of the Society, who shall refer it to the chairman of the Council. When the chairman shall have notified the president of the consent of three-fourths of the members of the Council, the president shall then refer the petition to the several chapters in good standing in the Society. No charter shall be granted without the consent of three-fourths of the Council, and of three-fourths of the chapters. The consent of a chapter shall only be given at a chapter meeting. In all chapters whose membership is fifty (50) or less, the quorum required in order to vote upon the admission of new chapters shall be one-half the active membership, and in all other chapters the quorum shall be twenty-five. Three-fourths of the votes cast must be in the affirmative in order to give consent.

SEC. 4. Chapters not reporting their votes on a question submitted by the Council within a period of six (6) months from the time the question is submitted, shall be regarded as having voted in the affirmative on said question. This amendment shall apply only to the votes of chapters on the admission of new chapters.

SEC. 5. A charter for the establishment of a new chapter shall be issued as soon as the president has received notification of the consent of the requisite number of chapters.

SEC. 6. The form of charter shall be as follows:

To whom it may concern: Be it known that a Charter for the establishment of a chapter of the Society of the Sigma Xi at..... is hereby granted to the following persons as Charter Members, conveying to them and their duly elected associates and successors all the privileges conferred by the Constitution of the Society:

.....

In witness whereof the signatures of the President and Secretary and the seal of the Society are hereunto affixed on this the _____ day of _____ in the year of our Lord _____.

SEC. 7. There shall be at least three meetings of each chapter during the college year.

ARTICLE III

MEMBERSHIP

SECTION 1. The Society shall consist of active, alumni, and honorary members.

SEC. 2 (a) The active membership of the chapter at any institution shall be composed of such resident professors, instructors, graduate students, and undergraduates as are members of the Society. The alumni membership of the chapter shall consist of former active members no longer connected with the institution, and such graduates as may be admitted to membership under the provision of Section 5; they shall have all the privileges of active members when present at any meeting of their chapter, except that they shall not vote at the election of new members. Members of any chapter who may become connected with another institution at which there is a chapter shall be entitled to enrollment as active members in the latter, on presenting satisfactory credentials.

(b) Membership of alumni chapters shall be composed of alumni members of collegiate chapters, and such graduates of other institutions of learning at which there are no chapters of the Society, as may be elected to membership in the Society by alumni chapters.

SEC. 3. Honorary members shall be scientific workers, who have achieved eminence in some branch of pure or applied science. They shall be entitled to all the benefits of the Society, including the right to attend and take part in conventions and meetings, but not the right of suffrage.

SEC. 4. The following, and no others, are eligible to active membership in a chapter at any institution: (a) any professor or instructor of the institution who has shown noteworthy achievement as an original

investigator in some branch of pure or applied science; (b) as a non-resident member, any professor, instructor or investigator, connected with a neighboring educational, scientific, or professional institution not having a chapter, who would otherwise be eligible for active membership; (c) any resident graduate who has by actual work exhibited an aptitude for scientific investigation; (d) any undergraduate in the fourth year class, or else in the class substantially equivalent thereto, who has given promise of marked ability in those lines of work which it is the object of this Society to promote. [See Appendix I, II, VI.]

SEC. 5. Any graduate of the institution of not less than five years standing is eligible to membership on the same conditions as prescribed for professors and instructors in (a) of Section 4.

ARTICLE IV

ELECTION OF MEMBERS

SECTION 1. Active members shall be elected for any chapter by the active membership of such chapter in the manner to be hereinafter defined.

SEC. 2. The election of members, when performed by the active membership as a body, shall be by ballot.

SEC. 3. When the election is according to Section 2 an affirmative vote of three-fourths of the active members present shall be necessary for election.

SEC. 4. When the active membership of a chapter exceeds twenty-four, the election of new members may be accomplished in the following manner:

Nominations shall be made by active members in writing, presenting together with the name of the nominee full testimony of his eligibility signed by the nominator and a seconder. Such written nominations shall be sent to the chapter's recording secretary and by him forwarded to the chapter's president, who shall be chairman *ex officio* of a board of electors, of a membership fixed by the chapter, but which at no time shall be less than five in number. This board shall be selected from the active members by ballot at the annual election of the chapter's officers; vacancies occurring thereafter to be filled by the board itself. A unanimous vote of the above board shall be necessary for election. [See Appendix IV.]

SEC. 5. The number of undergraduates elected during any one year shall not exceed one-fifth of the senior class in the scientific and technical courses.

SEC. 6. Honorary members shall be elected only at a convention of the Society, and by a vote of three-fourths of the delegates present.

ARTICLE V

INITIATION

SECTION 1. Such persons elected as provided for in Article IV, shall, before they exercise the privileges of membership, be initiated at such time after the election as the by-laws of each chapter shall designate, according to the following form:

Form of Initiation.

SEC. 2 (a) The members-elect shall be ushered into the presence of the chapter by a marshal or marshals to be appointed by the president for the occasion.

(b) The president or his deputy shall explain the aims and objects of the Society.

(c) The president shall next read the following pledge, to which each novitiate shall in turn assent as his name is called: Do you hereby pledge yourself to uphold the principles of the Society of the Sigma Xi, and assume the responsibilities incumbent upon active membership therein?

(d) The president then addressing those who have taken the pledge, shall formally pronounce them admitted to membership in the Society of the Sigma Xi, and shall invite them to sign the constitution.

(e) Each new member shall affix his signature to the Constitution, and shall then receive from the president the certificate of membership.

(f) The president shall present the new members to the chapter.

SEC. 3. Should any member-elect be unavoidably absent from the general initiation, he may, at the pleasure of the chapter, be provided with an opportunity to assent to the pledge given in Section 2 (c) and to sign the Constitution, and the president shall then formally admit him to the Society, and present him with the certificate of membership.

Certificates of Membership

SEC. 4. The certificate of membership of this Society shall bear the signatures of the president and secretary of the chapter, and the seal of the Society.

The form of the certificate should be as follows:

The Society of the Sigma Xi by this diploma certifies that _____ was on the _____ day of _____ in the year _____ duly elected to membership in the _____ Chapter of the Society of the Sigma Xi, and is fully entitled to all privileges granted by its constitution.

ARTICLE VI

INSIGNIA

SECTION 1. The badge or symbol to be worn by members of this Society shall be a gold watch-chain pendant, charm, or pin of octagonal shape, bearing the monogram of the Greek letter Sigma, superimposed upon the Greek letter Xi. The monogram may be jewelled, enameled, or embossed as desired. On the reverse side or back of the badge shall be engraved in the upper line the name of the college in which the owner was initiated, together with the date of such initiation. Also on the reverse, in the center shall be placed the chapter symbol in the middle of the numeral of the year in which such chapter was chartered. On the lower line shall be the owner's name, together with the numeral of the class in which he graduated and the name of such college where graduation took place. Provided that the continued use of the older design of the badge shall be optional with the several chapters.

SEC. 2. The colors of this Society shall be electric blue and white.

SEC. 3. The official letter head shall be the monogram of the Society.

SEC. 4. The Seal shall consist of a wreath of laurel, typifying the honorary character of membership in the Society, arranged as an oval enclosing the words "THE SOCIETY OF THE SIGMA XI" at the top, and the motto "Σπουδῶν ἑνώσεις" at the bottom. These words shall form an inner oval concentric with the first, punctuated with ten stars, and enclosing a field illuminated by the lamp of research. Above the lamp in the field of illumination shall be placed the monogram "ΣΞ," and below it the date of foundation, 1886.

ARTICLE VII

OFFICERS AND COUNCIL

SECTION 1. The officers of the Society and of each chapter shall be a president, vice-president, a recording secretary, a corresponding secretary, and a treasurer.

Election of Officers

SEC. 2. The officers of the Society shall be elected only at conventions. The terms of office shall be as follows:

President	2 years
Vice-President	2 years
Recording Secretary	2 years
Corresponding Secretary	4 years
Treasurer	2 years

The term of office of the corresponding secretary shall begin at the close of the convention at which he is elected, and continue until the close of the second biennial convention after his election, or until his successor is elected.

The terms of the other officers shall begin immediately after their election, and continue until the close of the next biennial convention, or until their successors are elected.

SEC. 3. The officers of the several chapters shall hold office for similar periods, unless otherwise provided for by the by-laws.

SEC. 4. A plurality of votes shall suffice for the election of any officer.

Duties of Officers

SEC. 5. The duties of the officers of the Society and of the several chapters shall be those which usually pertain to the several offices. In addition thereto the corresponding secretary shall hold and preserve all the papers, except the current records, of the Society or chapter respectively.

The Council

The Council shall be composed of the past presidents of the Society, the officers of the Society, *ex officio*, and an additional member to be elected by each chapter from its active members. The term of an elected member shall be three years; one-third of the elected members shall retire annually. Whenever a vacancy occurs, a successor shall be elected at once by the regular electors for the remainder of the term. The presi-

dent shall name one of the elected members as Chairman and a second member as Secretary to serve to the end of their terms as councilors.

Duties and Powers of the Council

SEC. 7. (a) The Council shall be the executive committee of the Society.

(b) It shall advise on the general policy of the Society.

(c) It shall consider and vote on the granting of charters as provided for in Art. II, Sec. 3, and on the basis of the following recommendations:

1. That the Council, in determining the award of a charter to an institution, should give a close scrutiny to the facilities and opportunities of the institution for the advancement and encouragement of original research in the various branches of science, and to the qualifications of its scientific faculty to accomplish these ends.

2. That the number of distinct branches of science represented by full professors in the institution should be at least five; and these branches should include mathematics, physics, chemistry, biology (some department of it), and engineering (some department of it).

3. That the number of graduate and resident members of the institution required to make the charter membership should be at the least ten; and of these not less than nine should be members of the instructing body; and each person should be adjudged by the Council to be fully worthy of membership in the Society.

(d) To meet the expenses of the Society, it shall have full power to levy assessments on all the chapters *pro rata* on the basis of active membership not to exceed fifty cents per active member per year.

(e) It shall submit to each chapter for approval all plans for extraordinary appropriations not covered by the previous paragraph (d). A three-fourths vote of the chapters shall be required for such approval.

(f) It shall nominate officers for the general society and shall notify each chapter of such nominations three months in advance of the time of election. Additional nominations may be made by any chapter or group of chapters, and notice of such nominations should be sent to each chapter six weeks in advance of the time of election.

ARTICLE VIII

CONVENTIONS

SECTION 1. A regular convention of the Society, consisting of delegates from each chapter, shall be held annually. Special conventions shall be called by the president on the written demand of one-third of the active chapters, and three months' notice of the date and special objects of such convention shall be sent to each chapter. [See Appendix V.]

Delegates

SEC. 2. (a) Each chapter in good standing shall be entitled to a representation of three delegates at each convention.

(b) The delegates representing any chapter shall be chosen from its active or alumni members; except that in case any chapter shall be un-

able to send its own members, it may appoint members of any other chapter as its representatives.

(c) In convention the votes shall be by chapters, each chapter having one vote.

(d) The expenses of delegates shall be paid by the chapter sending them.

(e) Any vacancy caused by disability of, or resignation of the secretary, corresponding secretary, or treasurer, shall be temporarily filled by an appointment by the president until such office is filled by vote of the convention.

Credentials

SEC. 3. (a) The appointment of each delegate shall be certified to by the secretary of the chapter appointing him, in a letter to the committee on credentials of the convention.

(b) These credentials shall be presented to this committee in person by the delegate.

Order of Business

SEC. 4. (a) Appointment by the president of three members to serve as a committee on credentials.

(b) Report of committee on credentials.

(c) Reading of the proceedings of the last convention.

(d) Reading of the president's report.

(e) Reading of the treasurer's report.

(f) Reading by delegates of the chapter reports.

(g) Reading by the secretary of the reports of chapters having no delegates present.

(h) Reports of committees.

(i) General business.

(j) Election of officers.

(k) Selection of time and place for the meeting of the next convention.

(l) Adjournment of business meeting.

(m) Public session.

Quorum

SEC. 5. Delegates from three-fourths of the chapters in good standing in the Society shall constitute a quorum at a convention.

ARTICLE IX

EXPENSES

SECTION 1. Expenses of the Society which shall be voted by conventions shall be met by an assessment on the several chapters, *pro rata*, on the basis of their active membership.

ARTICLE X

AMENDMENTS

SECTION 1. This Constitution may be altered or amended at a convention, by a vote of two-thirds of the chapters represented.

SEC. 2. Amendments can be brought before the convention only when recommended by some chapter.

SEC. 3. Notification of any proposed amendments to this Constitution must be sent to each chapter by the corresponding secretary of the Society, at least three months before the time of the convention at which such amendments are to be considered.

APPENDICES

The following appendices consist of extracts from the Society's convention records bearing on matters of general policy and administration. They have regularly been printed in the pamphlet entitled *Constitution of the Sigma Xi* and have been regarded as expressions of policy by the General Convention for the general advice of individual chapters.

APPENDIX I

Report of the committee on policy of extension, Convention of 1895

"The policy of the Society in the establishing of new chapters is a matter of vital importance to its future growth and standing.

"The Society was established in 1886 by a few earnest workers in the engineering sciences, as a means of rallying and encouraging those qualities which were deemed of the first importance in their own lines of investigation. It soon became broadened and enlarged to represent the general ideals of highest scholarship in the minds and before the ambitions of every earnest student in any branch of science. It proposed to recognize and elect to its membership those men in our institutions of learning who should exhibit in a marked degree the qualifications of natural endowment and training required for successfully conducting original research in the various branches of science.

"Thus *original research* bears the same relation to Sigma Xi as literary scholarship does to Phi Beta Kappa; and it is believed that the cause of original research, and that part of the higher education which trains the qualities required in scientific pursuits, will be benefited by honoring with election to Sigma Xi those men who during their college course show marked proficiency in these directions.

"In founding new chapters the Society should realize its responsibility and should not grant a charter to every institution that may think itself properly equipped to teach science; but on the contrary great care is necessary in establishing chapters, in order to ensure the proper discrimination of men who are to go forth as representatives of the best results of scientific education in the United States. To attain these ends our policy should be eminently and sternly conservative, while at the same time we should be fully alert and sensitive to the needs of progress in science and education.

"We should not plant the Society in any institution which has not already developed a clear appreciation of the dignity and needs of the scientific education, and a vivid realization of the distinction between scientific and literary ability. In order to make Sigma Xi an honor society it is essential that the men of first rank in the institution be given election, and this will not be possible where Phi Beta Kappa sets the

only standard of excellence, and scientific men are ranked as only second to literary scholars.

"In establishing a new chapter, therefore, we should not take into consideration any claim of advantage to accrue to the institution by such chapter, or any mere desire of individuals to become members of the Society; but in each case we should make sure that we entrust the power of distributing the honor of membership only to such persons and institutions as are capable of giving the education and training necessary to the carrying on of scientific investigation, and as have shown by their organization and equipment that they know the requisite qualifications, and are likely to confer the honor where it properly belongs.

"We should not only look for this active and pervasive spirit of research, but we should also be well assured of the hearty co-operation of the scientific faculty in the establishment of the local chapter, and in maintaining its standing in harmony with the interests of the Society."

Recommendations, Convention of 1895

"In order to secure these ends, upon motion of the chairman *pro tempore*, the following recommendations were adopted, regarding the policy of the Society in establishing new chapters:

"(1) That the Council, in determining the award of a charter to an institution, should give a close scrutiny to the facilities and opportunities of the institution for the advancement and encouragement of original research in the various branches of science, and to the qualifications of its scientific faculty to accomplish these ends.

"(2) That the number of distinct branches of science represented by full professors in the institution should be at least five; and these branches should include mathematics, physics, chemistry, biology (some department of it) and engineering (some department of it).

"(3) That the number of graduate and resident members of the institution required to make up the charter membership should be at least 10; and of these not less than 9 should be members of the instructing body; and each person should be adjudged by the Council to be fully worthy of membership in the Society."

APPENDIX II

Extract from presidential address, Convention of 1897

"The Society, if rightly guided, may take a place of leadership in the movement now going on to place science on an equality, so far as it deserves it, with literature as an element in the highest liberal education. Science at present owes its place in the higher education rather to its value as a direct means of attaining success in practical ways than to its value in general education. As such, science is to be compared rather with law, medicine or theology—technical fields of study, than with language, literature and philosophy, which are the essential factors of a liberal education.

"The time has come for making a permanent place for science among those latter factors of the modern liberal education. In shaping the future policy and extension of Sigma Xi, this thought, if correct, should be kept in mind: Phi Beta Kappa stands for the traditional conception of

the liberal culture, in which precedence is given to literature and what literature contains. In order to win a permanent place for science in that ideal education, it must be demonstrated that the study of science contributes a factor to this ideal which is not and cannot be furnished by the literary branches. This quality we believe to be found in the *ability and promise of original research*.

"In extending the Society we should realize the importance of holding up this educational position of science for recognition and honor. The practical side of science is felt and appreciated more in the institutions of the West where progress and activity are more vigorous; the value of a broad and liberal education is more deeply appreciated in the East where competition is closer and where the machinery of society and custom is more rigid and exacting. Our ideal for science is broader than either of these. We would exalt the scientific study of things by giving it a place of honor among the humanities of a liberal culture, and we would give new vigor to scholastic study by infusing into it the live practical problems of modern science."

APPENDIX III

Extract from records, Convention of 1897

"Some discussion arose as to the use of Greek letters for designating the chapters. It was moved and carried that any officer may when he pleases use the ordinary (or geographical) name of a chapter instead of its Greek letter."

APPENDIX IV

Extract from records, Convention of 1899

"The following resolution was moved and carried: That the Society suggests to the several chapters that when the method of election is employed as provided for in the Constitution, Article IV, Section 4, as amended in 1899, the action of the board of electors be referred to the chapter for formal ratification."

APPENDIX V

Extract from records, Convention of 1899

"Moved and carried that the regular time of the meeting of the conventions of the Society be the Tuesday evening of the week of meeting of the American Association for the Advancement of Science, and the place be the meeting place of the Association, unless otherwise provided for by the officers of the Society."

APPENDIX VI

Extract from address of President Williston, Convention of 1902

"The object of the Society is to weave a closer bond between those actuated by the desire of adding to the world's knowledge in science, or of making the world better because of science; to encourage the student in the pathway he has chosen; to support by mutual counsel;

and to remove obstacles by a union of strength—in other words, to co-ordinate, to unify and to promote the spirit of scientific research in the University.

“The pathways of science are already so diverse that we catch but brief glimpses of each other through the tangled growth of unexplored forest—we are constantly forgetting in our own zeal that there are others near by who are as zealous as we, and there seems to be no better way in the University by which we may be occasionally brought into the clearings for mutual advice. As teachers, the one chief bond between us is the training of the young in science—and what is the good of all our labor unless we help others to do better than we have done? It is the mission of the Sigma Xi to draw this bond more closely, to let us not forget that we are teachers above all else.

“Permit me, therefore, to urge upon all the chapters the greater development of the educational and social side of our fraternity . . . I believe that the students should be elected to membership as early as possible, and be given the privileges of companionship and counsel while yet they are of most benefit to them . . . Such a custom is almost sure to bring about greater enthusiasm among both students and faculty, a more full attendance at the meetings, and what is best of all, permits a closer personal relationship between instructors and students . . .

“The Society has served a most useful purpose in bringing into closer relationships not only those who are interested in the discovery of new truths, but also those who seek the new application of old truths. I believe that the full and sympathetic association of the students in all branches of scientific work should be continued—more indeed now than ever before, since the trend of college education is to differentiate early along the lines of professional education. The Society should be further extended among our chief technological schools, schools that are destined to exert a still more powerful influence in the future.”

APPENDIX VII

Extract from records, Convention of 1911

Instructions to the Council regarding admission of chapters: that at any petitioning institution there shall be a satisfactory and continuous output of research work.

THE CHAPTERS OF THE
SOCIETY OF THE SIGMA XI

ABBREVIATIONS

Used with names given under chapter headings

- A Elected as alumni member of chapter
- C Charter member of chapter
- F Faculty member of chapter
- G Elected as graduate student member of chapter
- U Elected as undergraduate student member of chapter
- 1907 etc., Year of election to membership in chapter
- * Biography in American Men of Science
- † Biography in Who's Who in America
- () Indicates membership in another chapter, the name of which is included within the parentheses

ALPHA CHAPTER

CORNELL UNIVERSITY, ITHACA, NEW YORK

Parent Chapter

Founded November, 1886

HISTORICAL SKETCH

Sigma Xi arose out of the desire for comradeship in a small group of earnest and scholarly university men, whose tastes and training were along engineering and scientific lines and who found their intellectual ideas not altogether in sympathy with the old established ideals of literary scholarship. They were beginning to realize that the American college is but the culmination of the disciplinary training of the high school, and were quite unconsciously formulating for American education the true university spirit. Although effort had often been put forth to establish an intercollegiate, scientific society, such a body did not come into actual existence until the founding of the Alpha Chapter of this organization.

In the spring of 1886, Mr. William A. Day, a member of the senior class in the Sibley College of Mechanical Engineering at Cornell, suggested the idea of a scientific Phi Beta Kappa to Professor Van Vleck of Sibley College. It is on record that the conversation took place as the two were climbing Buffalo Hill and that before they parted they went to Mr. Van Vleck's room and outlined an organization and a plan of campaign. Seven other members, namely: William H. Riley, Harry E. Smith, William A. Moss crop, Charles B. Wing, John Knickerbocker, John J. Berger, and Edwin N. Sanderson, of the classes of 1886 and 1887, were taken into their confidence. Of the nine original members five were in the course of mechanical and four in that of civil engineering. One of them had previously studied at Stevens Institute of Technology and at Johns Hopkins University, and three at Rensselaer Polytechnic Institute.

A meeting was soon held at which a temporary organization was effected, Mr. Van Vleck being chosen president.* Although not on record officially, it is, however, generally understood that the late Robert Henry Thurston, then Director of Sibley College, gave much encouragement and advice.

It seems that the idea of these nine projectors did not extend beyond the engineering departments. It so happened that Professor Henry Shaler Williams, at that time head of the department of Geology, was planning the organization of a similar society in his own branch of science. A conference was soon brought about at which Professor Williams successfully urged the formation of a single society to include all

*The minutes of this and of the several subsequent meetings in which the organization was perfected are still in the possession of the Alpha Chapter, and form a part of its permanent records.

departments of pure and applied science. Because of this effort, Professor Williams is generally regarded as one of the ten founders of Sigma Xi, these being symbolized by the ten stars on the seal.* The organization now being in permanent form, Professor Williams was, at the sixth meeting, held May 20, 1887, elected the First President of the Society. The other officers were: Vice-President, F. Van Vleck; Recording Secretary, C. D. Marx; Corresponding Secretary, C. B. Wing; Treasurer, A. W. Smith.

In shaping their constitution these founders sought to emphasize the spirit which drew them together rather than the different aims by which they were personally distinguished. This was the spirit of independent investigation and research—of seeking out and knowing for oneself, as contrasted with learning the traditions of the past. It was a formal embodiment of the “*zeitgeist*” whose eyes are turned forward, not backward. It is a significant fact that in making elections of new members, the prominent qualification has been, not the acquired knowledge of the candidate, but the shown ability to learn and to progress. Such are true university men, whether they carry on their investigations inside university walls or outside in the busy world of practical life. Although the founders were not fully aware of it, the result has shown that they stood at the parting of the ways for higher education in America.

During the academic year of 1886-7 twelve professors from the various scientific departments, four resident graduates, nine non-resident alumni, and six members of the graduating class were elected. A provisional constitution, which provided for the establishment of other chapters and for a biennial convention, was adopted. Four chapters in other institutions were organized, two of which are now extinct.†

In commencement week of 1887, Professor H. S. Williams delivered the inaugural address, entitled *The Ideal Modern Education*, in which he set forth the aims and objects of the new society. From the time of its organization until the first formal convention (1893) the Alpha Chapter was the controlling body.

The first convention met in the architectural lecture room of Cornell University, May 17, 1893, under the presidency of Professor E. L. Nichols. Delegates were present from four chapters, viz.: Cornell, Union, University of Kansas, and Rensselaer Polytechnic Institute. The essential work of this meeting was the adoption, with slight modifications, of the constitution previously prepared by the Alpha Chapter.

Up to the time of this first convention, the history of the society was largely a history of the Alpha Chapter. Since then, however, the Alpha Chapter has been only one of an ever increasing number of chapters, with a history that presents no especially interesting details. Its membership, active and alumni, is nearly one thousand. It has had, up to the present time (1911), over one hundred and forty meetings, including the initial meetings of organization, previously mentioned. A large number of these meetings have been lectures to which the general public were invited.

(*) See Art. VI, §4 of the Constitution, p. 49.

(†) Those at Stevens Institute of Technology, Hoboken, N. J., and Rutgers College, New Brunswick, N. J.

At the time Sigma Xi was founded tradition and authority had been the dominant factors in estimating the quality of scholarship. As our Society has grown, and has become a prominent factor in most of our universities, men have come to know that knowledge of the present is far more important than tradition—that individual discernment, power of initiative, and honesty, surpass all authority in the equipment of a scholar of the new sort.

This characteristic of the Sigma Xi spirit is, however, to be distinguished from the “commercial” tendency which was evident in the sturdy engineering students of that time, and the Society stood for intellectual energy rather than sordid ambition.

Although the founders were preparing to use their intellectual training and equipment in the practical affairs of life, and expected to reap personal benefit from such application, they realized that success was to be the outcome of properly applied energies, and that nature was not to be conquered by any kind of sophistry, but by the application of skill and energy in discovering and utilizing her boundless resources. The spirit which dominated in the founding of Sigma Xi, already is dominating the higher universities of America, and the scholar of this new type is taking his place of leadership in all the progress of the new era.

H. S. W. AND J. MCM.

PUBLICATIONS

The Ideal Modern Scholarship, The Presidential Address delivered at the Inauguration of the Alpha Chapter of the Sigma Xi Society, Cornell University, Ithaca, June 15, 1887. Henry Shaler Williams, Ph. D., professor of Geology, Cornell University, Ithaca, N. Y., 1887. pp. 8.

Constitution of the Sigma Xi Society. Ithaca, N. Y., 1887. pp. 13.

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Preparatory Training for Scientific and Technical Studies. Paper delivered December, 1887, by Professor Charles D. Marx, C. E., Professor of Civil Engineering, Cornell University. Reprinted from The Academy, Syracuse, N. Y., March, 1888, pp. 16.

President's Address to the Cornell Chapter of the Sigma Xi. E. B. Titchener, M. A., Ph. D., Sage Professor of Psychology in Cornell University. June 9, 1900. pp. 16.

President's Address to the Cornell Chapter of the Sigma Xi. George F. Atkinson, Ph. B., Professor of Botany in Cornell University. June 8, 1901. pp. 10.

President's Address to the Cornell Chapter of the Society of the Sigma Xi. Veranus A. Moore, B. S., M. D., Professor of Comparative Pathology and Bacteriology, Cornell University. June 6, 1903. pp. 13.

By-Laws of the Alpha Chapter of the Society of the Sigma Xi. pp. 7 n. p. n. d.

By-Laws of the Alpha Chapter of the Society of the Sigma Xi. (As revised 1897) pp. 7. n. p. n. d.

Sigma Xi. Resident Members of the Cornell Chapter 1907-1908. pp. 4. n. p. n. d.

Sigma Xi. Resident Members of the Cornell Chapter 1909-1910. pp.
4. n. p. n. d.

Sigma Xi. Resident Members of the Cornell Chapter 1911-1912. pp.
4. n. p. n. d.

OFFICERS FOR 1911-12

President.....	HEINRICH RIES
Vice-President.....	ERNEST BLAKER
Recording Secretary.....	FLOYD KARKER RICHTMYER
Corresponding Secretary.....	JAMES McMAHON
Treasurer.....	WILLIAM ALBERT RILEY
Councilor.....	HENRY SHALER WILLIAMS

MEMBERSHIP ROLL

Fred Lee Ackerman	U 1901 Architect	Edmeston, N. Y.
Arthur Adams	U 1901 Consulting Engineer	Halifax, N. S.
Edward Thomas Adams	U 1894	Palo Alto, Cal.
Oscar Perry Akers	G 1904* Professor of Mathematics, Allegheny College	Meadville, Pa.
Calvin Dodge Albert	F 1908 Assistant Professor of Machine Design, Cornell University	Ithaca, N. Y.
Maximilian Claude Albrech	U 1906 Chief Chemist, Food and Drug Inspection Laboratory	Pittsburgh, Pa.
Charles Anderson Alexander	U 1897 Mechanical Engineer and Contractor	Batavia, N. Y.
Anna Allen	U 1909 (Mrs Albert Hazen Wright) Assistant in Zoology, Cornell University	Ithaca, N. Y.
Arthur Augustus Allen	U 1907 Instructor in Vertebrate Zoology, Cornell University	Ithaca, N. Y.
Caroline Louise Allen	U 1904 (Mrs Frederic G Dunham)	Albany, N. Y.
Frank Allen	G 1900* Professor of Physics, University of Manitoba	Winnipeg, Canada
William Daniel Allen	U 1906 Manager, Arawatz Mining Company	Silver Lake, Col.
William Gordon Allen	U 1904 Salesman, Gould's Manufacturing Company	Seneca Falls, N. Y.
William Ambler	U 1900 (Case CF 1904) The Ambler Realty Company	Cleveland, Ohio
Adeline Sarah Ames	G 1911	Normal, Neb.
Walter Otto Amsler	U 1895 Scientist	Pittsburgh, Pa.
Leroy Anderson	U 1902* (California F 1908) Professor of Agriculture, University of California	Berkeley, Cal.
Ross Peter Anderson	G 1910 Instructor in Chemistry, Cornell University	Ithaca, N. Y.

William Anderson	G 1911	Houghton, Mich.
Instructor in Physics and Electrical Engineering, Michigan College of Mines		
Frank Angell	F 1892*† (Stanford CF 1902)	Palo Alto, Cal.
Professor of Psychology, Leland Stanford Junior University		
William Arnold Anthony	F 1887*†	
(Deceased 1908)		
Bunrokn Arakawa	G 1909	Tokio, Japan
Professor of Engineering		
Alexander Floyd Armstrong	U 1901	Philadelphia, Pa.
Civil Engineer, Sun Company		
Joseph Charles Arthur	G 1888*†	Lafayette, Ind.
Professor of Botany, Purdue University		
George Francis Atkinson	G 1888*†	Ithaca, N. Y.
Professor of Botany, Cornell University		
Herbert Sidney Austin	U 1907	Elmhurst, Long Island, N. Y.
Engineer		
William Eugene Austin	G 1895	New York City
Architect		
Augustine Ridenour Ayers	U 1899	Cleveland, Ohio
Mechanical Engineer, Lake Shore and Michigan Southern Railroad Company		
Hiram Douthitt Ayres	G 1904	Ithaca, N. Y.
Instructor in Physics, Cornell University		
Lee Seldon Backus	U 1906 (Missouri F 1908)	Columbia, Mo.
Instructor in Veterinary Science, University of Missouri		
Florence (Winger) Bagley	G 1901*	Urbana, Ill.
(Mrs William Chandler Bagley)		
William Chandler Bagley	G 1900*† (Illinois F 1910)	Urbana, Ill.
Director of School of Education, University of Illinois		
Liberty Hyde Bailey	F 1891*†	Ithaca, N. Y.
Dean, College of Agriculture, Cornell University		
Alvin Walter Baird	U 1905	Portland, Ore.
Lecturer in Surgery, University of Oregon		
John Wallace Baird	G 1902* (Illinois F 1906)	Worcester, Mass.
Professor of Psychology, Clark University		
Linnaeus Earl Baker	U 1904	Lafayette, Ind.
Gas Power Specialist		
Homer Gage Balcom	U 1897	New York City
Balcom and Darrow, Consulting Engineers		
Caroline Willard Baldwin	G 1895	Palo Alto, Cal.
(Mrs Charles Theobald Morrison)		
Wesley Manning Baldwin	U 1907*	New York City
Instructor in Anatomy, Cornell Medical College		
Albert Ball	U 1901	New York City
Teacher, Cooper Union		
Norman Frank Ballantyne	U 1893	Westmount, Que.
Designer		

Nathan Banks	U 1889*†	Washington, D. C.
Assistant Entomologist, Bureau of Entomology		
William Nichols Barnard	F 1905*	Ithaca, N. Y.
Professor of Steam Engineering, Cornell University		
Fred Asa Barnes	F 1906	Ithaca, N. Y.
Assistant Professor of Railroad Engineering, Cornell University		
Lella (Harvie) Barnett	U 1901	Columbus, Ohio
(Mrs Samuel Jackson Barnett)		
Samuel Jackson Barnett	G 1897* (Stanford CF 1902)	Columbus, Ohio
Assistant Professor of Physics, Ohio State University		
Jesse Edmund Barney	U 1899	Pittsburgh, Pa.
Engineer, Westinghouse Electric and Manufacturing Company		
John Henry Barr	G 1887*†	New York City
Consulting Engineer, Union Typewriter Company		
Samuel Henry Barraclough	G 1894	Sydney, N. S. W.
Professor of Engineering, University of Sydney		
John Hall Barron	U 1906	Nunda, N. Y.
Agriculturist		
Mortier Franklin Barrus	G 1910	Ithaca, N. Y.
Assistant Professor of Plant Pathology, Cornell University		
Elias Hudson Bartley	G 1908*†	Brooklyn, N. Y.
Professor, Long Island College Hospital		
Calvin Lewis Barton	U 1899	New York City
Engineer and Contractor, McHarg-Barton Company		
Isaac M Baum	U 1903	Mexico, Mex.
Manager, Mexican National Gas Company		
John Andrew Baumgardner	U 1905	Flint, Mich.
Director of Laboratory, Buick Motor Company		
Agnes Sime Baxter	G 1894	Columbia, Mo.
(Mrs Albert Ross Hill)		
Willard Beahan	A 1888	Cleveland, Ohio
First Assistant Engineer, Lake Shore and Michigan Southern Railroad		
Alvin Casey Beal	G 1911	Ithaca, N. Y.
Assistant Professor of Floriculture, Cornell University		
Bergie Barrie Beckett	U 1904	Seattle, Wash.
Manager, Seattle Office, Pierson, Roeding and Company		
Elias Hyrum Beckstrand	G 1901	Salt Lake City, Utah
Professor of Mechanical Engineering, University of Utah		
Frederick Bedell	G 1891*†	Ithaca, N. Y.
Professor of Applied Electricity, Cornell University		
Raynor Monroe Bedell	U 1902	Montclair, N. J.
Engineer		
James Munsie Bell	G 1903*	Chapel Hill, N. C.
Associate Professor of Chemistry, University of North Carolina		
Ruby Green Bell	F 1905 (Stanford G 1904)	Ithaca, N. Y.
(Mrs Albert William Smith)		

ALPHA CHAPTER

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Mark Anthony Beltaire, Jr	U 1902	Danbury, Conn.
Operating Department, Railway Steel Spring Company		
Centennial Harry Benedict	U 1897	Lake Linden, Mich.
Engineer, Calumet and Hecla Mining Company		
Charles William Bennett	G 1910	Ithaca, N. Y.
Instructor in Chemistry, Cornell University		
Gordon Mansir Bentley	G 1901*	Knoxville, Tenn.
State Entomologist, University of Tennessee		
Isaac Madison Bentley	F 1898*	Ithaca, N. Y.
Assistant Professor of Psychology, Cornell University		
Wilton Bentley	U 1898	Chicago, Ill.
President, Bentley, Snyder Company		
John Robert Benton	F 1902*	Gainesville, Fla.
Professor of Physics and Electrical Engineering, University of Florida		
John Jacob Berger	CU 1886	
(Deceased 1899)		
John McWilliams Berry	U 1897	Albany, N. Y.
Physician and Surgeon, Albany Hospital		
Maxwell Rufus Berry	U 1903	Detroit, Mich.
President, Electric Products Company		
Morphy Edison Berry	U 1904	East Orange, N. J.
Chief Inspector, Western Electric Company		
Lyman Austin Best	U 1888	Brooklyn, N. Y.
Educator		
Cornellius Betten	G 1905*	Lake Forest, Ill.
Professor of Biology, Lake Forest University		
Hermann Michael Biggs	A 1888*†	New York City
Medical Officer, City Department of Health		
Wheeler Scott Bishop	U 1905	Goldyke, Nev.
Metallurgist		
Frank Edward Bissell	G 1888	Akron, Ohio
Chief Engineer, Akron, Canton and Youngstown Railroad		
George Welton Bissell	U 1888*†	East Lansing, Mich.
Dean of Engineering, Michigan Agricultural College		
James Adrian Bizzell	G 1903*	Ithaca, N. Y.
Assistant Professor of Soil Technology, Cornell University		
John Alexander Black	G 1908	Ithaca, N. Y.
Assistant in Chemistry, Cornell University		
Edwin Mortimer Blake	G 1900*	New York City
Ernest Blaker	G 1899*	Ithaca, N. Y.
Assistant Professor of Physics, Cornell University		
Robert Byron Blakeslee	U 1899	Du Bois, Pa.
Superintendent		
Nora Stanton Blatch	U 1905	New York City
(Mrs Lee De Forest)		

George Frederick Blessing	F 1907	Swarthmore, Pa.
Professor of Engineering, Swarthmore College		
Julia Norum Blight	U 1902	Batavia, N. Y.
Instructor in Mathematics, High School		
Bryant Harmon Blood	U 1889	Newark, N. J.
Superintendent, The Celluloid Company		
Louis Frederick Blume	G 1909	Pittsfield, Mass.
Engineer, General Electric Company		
Donaldson Bodine	G 1894*	Crawfordsville, Ind.
Professor of Zoology, Wabash College		
Carl Winter Boegehold	U 1906	Holyoke, Mass.
Mechanical Engineer, Deane Steam Pump Company		
Elizabeth May Bolger (Mrs Oswald Milligan)	U 1906	Philadelphia, Pa.
August Bostroem, Jr	U 1906	New York City
Electrical Inspector, U. S. Navy Yard		
Anna Botsford	A 1888*†	Ithaca, N. Y.
(Mrs John Henry Comstock) Lecturer in Nature Study, Cornell University		
George John Bouyoucos	G 1911	East Lansing, Mich.
Research Assistant, Michigan Agricultural College		
Charles Herbert Boxmeyer	G 1901	Detroit, Mich.
Physician		
James Ellsworth Boyd	G 1896* (Ohio CF 1898)	Columbus, Ohio
Professor of Mechanics, Ohio State University		
Paul Prentice Boyd	G 1911	Hanover, Ind.
Professor of Mathematics, Hanover College		
Elisabeth Harwood Boynton	U 1889	Washington, D. C.
(Mrs Frederick Vernon Coville)		
Margaret Fursman Boynton	U 1895 (Illinois A 1909)	Urbana, Ill.
(Mrs Phineas Lawrence Windsor)		
James Chester Bradley	U 1906* (California G 1907)	Ithaca, N. Y.
Assistant Professor of Entomology, College of Agriculture, Cornell University		
John Casper Branner	A 1887*† (Stanford CF 1902)	Palo Alto, Cal.
Professor of Geology, Leland Stanford Junior University		
Percy Lewis Braunworth	U 1906	Trenton, N. J.
Farley and Braunworth, Consulting Engineers		
Clarence Edward Breckenridge	U 1900	Flushing, N. Y.
Mechanical Engineer		
Frank Breed	U 1911	Ithaca, N. Y.
Student, Cornell University		
John Cromwell Breedlove	U 1902	Tacoma, Wash.
Assistant Engineer, Northern Pacific Railway Company		
Herman George Breitwieser	U 1902	Brooklyn, N. Y.
Electrical Engineer		
Charles Edward Brewer	G 1900*	Wake Forest, N. C.
Professor of Chemistry, Wake Forest College		

ALPHA CHAPTER

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Thomas Rowland Briggs	G 1911	Ithaca, N. Y.
Assistant Instructor in Chemistry, Cornell University		
George Mackenzie Brill	U 1891	Chicago, Ill.
Brill and Gardner, Construction Engineers		
John Cornelius Brocksmith	U 1899	Cedar Rapids, Ia.
Brocksmith Laboratory, Storage Batteries, etc.		
Grover Charles Brown	U 1906	Sagua La Grande, Cuba
Assistant Engineer, Ruiz and Taylor, Contractors		
Harry Philip Brown	G 1909	Ithaca, N. Y.
Instructor, Cornell University		
Mortimer Jay Brown	G 1911	Niagara Falls, N. Y.
Newton Henry Brown	G 1898 (Ohio CF 1898)	Austin, Tex.
Professor of Electrical Engineering, University of Texas		
Oliver W Brown	G 1898* (Indiana F 1906)	Bloomington, Ind.
Associate Professor of Chemistry, Indiana University		
Arthur Wesley Browne	G 1903*	Ithaca, N. Y.
Professor of Inorganic and Analytical Chemistry, Cornell University		
Alice Henrietta Bruère	U 1895	New York City
Teacher of Physics, Wadleigh High School		
Clement Benjamin Brun	U 1890	New York City
Architect		
Alexander Watson Buchanan	U 1887	Los Angeles, Cal.
Secretary and General Manager, American Conduit Company		
Henry Hine Buckingham	G 1904	Hysham, Mont.
Farmer		
Albert George Frederick Buehler	U 1911	Ithaca, N. Y.
Instructor in Civil Engineering, Cornell University		
Christian Rudolf August Bües	U 1906	Lima, Peru
General Manager		
Marguerite Jane Bullard	U 1902	Putnam, Conn.
Physician, Day Kimball Hospital		
Charles Eli Burgoon	G 1906	New York City
Chief Engineer, U. S. Custom House		
Samuel Howard Burnett	G 1902*	Ithaca, N. Y.
Assistant Professor of Pathology, Cornell University		
Eleanor Irene Burns	U 1904	Constantinople, Turkey
Professor of Physics, American College for Girls		
Herbert Farwell Burrage	U 1892	
(Deceased 1906)		
Edward Parker Burrell	U 1898	Cleveland, Ohio
Warner and Swazey Company		
Austin Burt	U 1900	Waterloo, Ia.
Engineer and General Superintendent, Citizens Gas and Electric Company		
Frederick Carl Busch	A 1903*	Buffalo, N. Y.
Physician and Professor of Physiology, University of Buffalo		
Fred Forbes Bushnell	G 1902	Middletown, Conn.
Veterinarian		

Bert S Butler	U 1905*	Washington, D. C.
Assistant Geologist, U. S. Geological Survey		
Ormond Butler	G 1909	Los Gatos, Cal.
Edward Caldwell	A 1888	New York City
Treasurer, McGraw-Hill Book Company		
Francis Cary Caldwell	U 1890* (Ohio CF 1898)	Columbus, Ohio
Professor of Electrical Engineering, Ohio State University		
George Chapman Caldwell	F 1887†	
(Deceased 1907)		
Frank Kenneth Cameron	G 1895*†	Washington, D. C.
Soil Chemist, Bureau of Soils, U. S. Department of Agriculture		
Allan Harry Candee	U 1906	Milwaukee, Wis.
Sales Engineer, H. W. Johns-Manville Company		
William Cargill Capron	U 1908	Ithaca, N. Y.
Instructor in Engineering, Cornell University		
Fred Wallace Card	G 1893 (Nebraska CF 1897)	Sylvania, Pa.
Farm Management		
Samuel Peaslee Carl	U 1895	Parkersburg, W. Va.
Oil Business		
Frank Carney	G 1905*	Granville, Ohio
Professor of Geology, Denison University		
Clinton Arthur Carpenter	U 1905	Chicago, Ill.
Electrical Engineer, D. H. Burnham and Company		
Rolla Clinton Carpenter	F 1891*†	Ithaca, N. Y.
Professor of Experimental Engineering, Cornell University		
Leonard Jarvis Carr	U 1901	
(Deceased 1902)		
William Massey Carruth	U 1901*	Clinton, N. Y.
Assistant Professor of Mathematics, Hamilton College		
Effie Adeline Carter	U 1898	Brooklyn, N. Y.
Teacher, Girls' High School		
Walter Buckingham Carver	F 1909	Ithaca, N. Y.
Assistant Professor of Mathematics, Cornell University		
Hector Russell Carveth	U 1898*	Niagara Falls, N. Y.
Works Manager, Niagara Electrochemical Company		
George Whitman Casey	A 1888	Philadelphia, Pa.
Architect		
George Walter Cavanaugh	F 1911	Ithaca, N. Y.
Professor of Chemistry, Cornell University		
Frank Wilbut Chamberlain	U 1906	Burlington, Vt.
Veterinary		
Ralph Vary Chamberlin	G 1903*	Salt Lake City, Utah
Professor of Zoology, University of Utah		
Emile Monnin Chamot	U 1891*	Ithaca, N. Y.
Assistant Professor of Sanitary Chemistry and Toxicology, Cornell University		
Albert Hotchkiss Chandler	U 1902	New York City
Assistant Engineer, Topographical Bureau		

Horace Edward Chandler	F 1907 (Brown G 1906)	Weihsien, China
Instructor in Physics, Shantung Christian University		
Richard Edward Chandler	G 1897	Stillwater, Okla.
Dean of Engineering, Oklahoma Agricultural and Mechanical College		
Carlton Thorp Chapman	U 1900	Rochester, N. Y.
Treasurer and Engineer, Rochester Structural Steel Company		
Vera Katharine Charles	U 1903	Washington, D. C.
Scientific Assistant, U. S. Department of Agriculture		
Clement Dexter Child	G 1894*†	Hamilton, N. Y.
Professor of Physics, Colgate University		
Irving Porter Church	F 1887*†	Ithaca, N. Y.
Professor of Applied Mechanics and Hydraulics, Cornell University		
William Wilberforce Churchill	U 1889	
(Deceased 1910)		
Ella Maude Cipperly	U 1904	Wellesley, Mass.
(Mrs Earl McKay Wiegand) Instructor in Botany, Wellesley College		
Charles Frederick Clark	G 1906	Ithaca, N. Y.
Assistant Agronomist in Experiment Station, Cornell University		
Dean Clark	U 1899	Syracuse, N. Y.
Operative Manager, Smith Premier Typewriter Company		
Ida Adella Ross Clark	U 1900	Rome, N. Y.
(Mrs J Edwin Clark)		
John Powell Clark	U 1906	New York City
Assistant Teacher, Stuyvesant High School		
Judson Freeman Clark	G 1899	Vancouver, B. C.
Forest Engineer		
Tracy Earl Clark	G 1894	Brooklyn, N. Y.
Physician, Professor of Physiology, Brooklyn College of Pharmacy		
William Alexander Graham Clark	U 1900	Washington, D. C.
Textile Expert, Tariff Board		
Edgar Whitney Clarke	U 1905	Johnstown, Pa.
Assistant Superintendent, Mechanical Department		
Agnes Mary Claypole	G 1894*†	Berkeley, Cal.
(Mrs Robert Orton Moody)		
Edith Jane Claypole	G 1893*†	Pasadena, Cal.
Physician		
William Weber Coblentz	G 1901*	Washington, D. C.
Assistant Physicist, Bureau of Standards, U. S. Department of Agriculture		
John Eliot Coit	G 1906*	Berkeley, Cal.
Associate Professor of Pomology, University of California		
Orin B Coldwell	U 1902	Portland, Ore.
Janet (Sheldon) Collier	U 1894	Providence, R. I.
(Mrs Theodore Frelinghuysen Collier)		
Willis Collins	U 1895	Milwaukee, Wis.
Secretary and Superintendent, Sivyer Steel Casting Company		
Julia Trueman Colpitts	G 1900	Ames, Ia.
Assistant Professor of Mathematics, Iowa State College		

Robert Coltman, Jr	U 1906	Washington, D. C.
Superintendent of Construction of Washington Cathedral		
Anna Botsford Comstock	A 1889*†	Ithaca, N. Y.
(Mrs John Henry Comstock)	Lecturer on Nature Study, Cornell University	
Charles Worthington Comstock	F 1895*	Denver, Col.
State Engineer of Colorado		
John Henry Comstock	CF 1886*†	Ithaca, N. Y.
Professor of Entomology, Cornell University		
Theodore Bryant Comstock	A 1887*†	Los Angeles, Cal.
Chief Engineer, Board of Public Utilities		
George Dyer Conlee	G 1908	Binghamton, N. Y.
General Superintendent, Binghamton Gas Works		
Harold Joel Conn	G 1910	Geneva, N. Y.
Associate Bacteriologist, Agricultural Experiment Station		
John Saylor Coon	A 1888*†	Atlanta, Ga.
Professor Mechanical Engineering, Georgia School of Technology		
Ralph Stuart Cooper	U 1903	New York City
Eastern Sales Manager, Independent Pneumatic Tool Company		
Clement Austin Copeland	U 1896	Oakland, Cal.
Consulting Electrical Engineer		
Charles Lorin Cornell	U 1889	New York City
Treasurer, Niles Bement Pond Company, Pratt and Whitney Company		
Eugene Rollin Corson	A 1888*†	Savannah, Ga.
Physician and Surgeon, Savannah Hospital		
Grant Adelbert Covell	U 1887	Corvallis, Ore.
Dean, School of Engineering, Oregon Agricultural College		
Elisabeth Boynton Coville	U 1889	Washington, D. C.
(Mrs Frederick Vernon Coville)		
Frederick Vernon Coville	U 1887*†	Washington, D. C.
Botanist, U. S. Department of Agriculture		
Luzerne Coville	A 1892*	Ithaca, N. Y.
Physician		
Harriet (Lyndon) Cowell	U 1906	Philadelphia, Pa.
(Mrs Arthur Westcott Cowell)		
Mary (Nichols) Cox	G 1896	Chappaqua, N. Y.
(Mrs John Cox, Jr)		
Warren Moore Craft	G 1894	New York City
Engineer, American Telephone and Telegraph Company		
John Craig	F 1901*†	Ithaca, N. Y.
Professor of Horticulture, Cornell University		
James Ray Craighead	U 1906	Schenectady, N. Y.
General Electric Company		
John Jay Crain	U 1896	Quincy, Mass.
Electrical Engineer, Fox River Shipbuilding Company		
L D Crain	G 1902	Fort Collins, Col.
Hardware Merchant		

ALPHA CHAPTER

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Charles Lee Crandall	F 1887*†	Ithaca, N. Y.
Professor of Railway Engineering and Geodesy, Cornell University		
Albert Sears Crane	U 1891	New York City
Hydraulic Engineer, J. G. White and Company		
Albert Cushing Crehore	G 1892*	Yonkers, N. Y.
Electrical Engineer		
Eugene Casson Crittenden	U 1905	Washington, D. C.
Assistant, Bureau of Standards		
Louis Josephus Cross	G 1910	Ithaca, N. Y.
Instructor in Chemistry, Cornell University		
Gilbert Crossman	U 1898	New York City
Inspection Engineer, Western Electric Company		
Marshall Baxter Cummings	G 1909	Burlington, Vt.
Professor of Horticulture, University of Vermont		
Noah Cummings	U 1894	New York City
Civil Engineer		
Henry Platt Cushing	A 1908*†	Cleveland, Ohio
Professor of Geology, Western Reserve University		
Blin Sill Cushman	U 1893	Ithaca, N. Y.
Chemist, Cayuga Lake Cement Company		
Ida (Hill) Dalton	U 1890	Schenectady, N. Y.
(Mrs William Dalton)		
Lewis Andrew Darling	F 1907 (Stanford G 1904)	Grand Rapids,
Chief Engineer and Works Manager		[Mich.]
Philip Jackson Darlington	U 1891	Hartford, Conn.
President, The Roto Company		
John Percival Davies	U 1903	Ebbw Vale, Manchester, England
George Jacob Davis	U 1902 (Wisconsin CF 1906)	Madison, Wis.
Assistant Professor of Hydraulic Engineering, University of Wisconsin		
Kary Cadmus Davis	G 1900*	New Brunswick, N. J.
Professor of Agronomy, New Jersey College of Agriculture		
Lynn Leroy Davis	U 1896	Buffalo, N. Y.
Assistant Engineer, U. S. Engineer Office, War Department		
Clarence Augustus Dawley	U 1904	New York City
Consulting Engineer		
William Asher Day	CU 1886	Chicago, Ill.
Manager, Chicago Office, Erie City Iron Works		
Winterton James Day	U 1897	Schenectady, N. Y.
Salesman, General Electric Company		
Henry Pelouze de Forest	A 1910†	New York City
Physician		
Nora Stanton (Blatch) De Forest	U 1905	New York City
Engineer and Chief Draftsman, Radley Steel Construction Company		
Van Ness De Lamater	U 1900	Plainfield, N. J.
Mechanical Engineer, Rushmore Dynamo Works		
Thomas G Delbridge	F 1904 (Union G 1903)	Ithaca, N. Y.
Instructor in Chemistry, Cornell University		

- Louis Munroe Dennis F 1892*† Ithaca, N. Y.
Professor of Inorganic Chemistry, Cornell University
- Boyd Coe Dennison F 1908 Pittsburgh, Pa.
Assistant Professor of Engineering, Carnegie Technical Schools
- Orville Adelbert Derby A 1887*† Rio de Janeiro, Brazil
Director, Servico Geologico e Mineralogico
- Max Dercum G 1898
(Deceased 1898)
- Herman Diederichs U 1897 Ithaca, N. Y.
Professor of Experimental Engineering, Cornell University
- Arvin J Dillenbeck U 1911 Johnstown, Pa.
Civil Engineer, The Cambria Steel Company
- Howard Dingle U 1905 Cleveland, Ohio
District Manager, Crocker-Wheeler Company
- Frank Stillman Dix U 1903 Brooklyn, N. Y.
Draftsman and Engineer
- De Forest Halstead Dixon U 1896 Brooklyn, N. Y.
Contractor
- Martha Doan G 1896 Poughkeepsie, N. Y.
Instructor in Chemistry, Vassar College
- Norman Dodge U 1900 New York City
Lumber Dealer
- Harold Lukens Doolittle U 1906 Los Angeles, Cal.
Assistant Engineer, Southern California Edison Company
- Herbert Grove Dorsey G 1906* New York City
Research Engineer, Western Electric Company
- Maxwell Jay Dorsey G 1910 Minneapolis, Minn.
Research in Fruit Breeding, University of Minnesota
- Gertrude Elisabeth Douglas G 1907 Lynchburg, Va.
Instructor in Biology, Randolph-Macon Woman's College
- John Frederick Howard Douglas G 1910 Ithaca, N. Y.
Instructor in Electrical Engineering, Cornell University
- Edmund Miller Doyle G 1896 San Francisco, Cal.
Superintendent, Cadillac Motor Car Company
- William Allen Drake U 1906 Chicago, Ill.
The Brownell Company
- Mervin Dresbach F 1906* (Ohio F 1902) Ithaca, N. Y.
Assistant Professor of Physiology, Cornell University
- Elmer Reginald Drew G 1903 (Stanford F 1906) Palo Alto, Cal.
Assistant Professor of Physics, Leland Stanford Junior University
- William Russel Dudley F 1887*† (Stanford CF 1902) Palo Alto, Cal.
Professor of Systematic Botany, Stanford University
- Edward Allen Duffy G 1904 Chrome, N. J.
U. S. Smelting and Refining Company
- Benjamin Minge Duggar F 1897*† (Missouri CF 1905) Ithaca, N. Y.
Professor of Plant Physiology, Cornell University

Richard Gustavus Dukes	U 1896 (Case CF 1904)	Lafayette, Ind.
Professor of Mechanics, Purdue University		
Harry Lee Duncan	U 1896	New York City
Patent Lawyer, Duncan and Duncan		
Charles Dunn	U 1893	New York City
Mechanical Engineer		
Albert Cyrus Durand	U 1906	Ithaca, N. Y.
Physician		
Elias Judah Durand	U 1893* (Missouri F 1910)	Columbia, Mo.
Assistant Professor of Botany, University of Missouri		
William Frederick Durand	F 1892*† (Stanford F 1904)	Palo Alto, Cal.
Professor of Mechanical Engineering, Leland Stanford Junior University		
Oliver Wesley Dynes	G 1911	Agricultural College, N. D.
Associate Professor of Agronomy, North Dakota Agricultural College		
Arthur Starr Eakle	U 1892*† (California CF 1901)	Berkeley, Cal.
Assistant Professor of Mineralogy, University of California		
Elmer Gould Eberhardt	U 1904	
(Deceased 1908)		
Charles David Eckler	U 1899	
(Deceased 1904)		
Henry Turner Eddy	A 1888*† (Minnesota CF 1896)	Minneapolis
Dean of Graduate School, University of Minnesota		[Minn.]
Walter Smith Edge	U 1903	Darlington, Md.
Civil Engineer		
Claude Wilbur Edgerton	G 1907*	Baton Rouge, La.
Plant Pathologist, Louisiana Agricultural Experiment Station		
James Harvey Edwards	U 1888	New York City
Assistant Chief Engineer, American Bridge Company		
Emil Alfred Ekern	G 1904	Grace, Ida.
Engineer, Telluride Power Company		
Alfred Henry Eldredge	G 1894	Boston, Mass.
Consulting Engineer, North Packing and Provision Company		
John Earl Elliott	U 1905	Wilmington, Del.
Draftsman		
William James Elser	F 1907	New York City
Instructor in Bacteriology, Cornell University Medical College		
George Charles Embody	G 1909	Ithaca, N. Y.
Instructor in Agriculture, Cornell University		
Louis Warren Emerick	U 1891	Fulton, N. Y.
Vice-President, Fulton Light, Heat and Power Company		
Albert Hamilton Emery, Jr	U 1898†	Stamford, Conn.
Engineer, Clarks Hill Place		
Millard Clayton Ernsberger	U 1908	Rochester, N. Y.
Professor of Mechanical Engineering, University of Rochester		
Clarence Metz Eshelman	U 1898	Niagara Falls, N. Y.
Electrical Engineer		

Frank Eurich, Jr	U 1899 Architect	Jersey City, N. J.
Early Cunningham Ewing	G 1909	Aberdeen, Miss.
Henry Ellsworth Ewing	G 1911 Assistant Entomologist, Oregon Agricultural Experiment Station	Corvallis, Ore.
James Ewing	F 1904*† Physician, Professor of Pathology, Cornell University Medical College	New York City
Herman Le Roy Fairchild	A 1888*† Professor of Geology, University of Rochester	Rochester, N. Y.
Robert Morris Falkenau	U 1905 Erecting Engineer	New York City
George C Farkell	U 1891 Department Superintendent, National Tube Company	Lorain, Ohio
Ephraim Porter Felt	G 1894 State Entomologist, State Museum	Albany, N. Y.
Robert Coyner Fenner	F 1904* Manager Chicago Office, Cutler-Hammer Manufacturing Company	Chicago, Ill.
Jeremiah Sweetser Ferguson	F 1907* Assistant Professor of Histology, Cornell University Medical College	New York City
Margaret Clay Ferguson	U 1899* Professor of Botany, Wellesley College	Wellesley, Mass.
Bernhard Eduard Fernow	F 1899*† Dean of Forestry, Toronto University	Toronto, Canada
Clarence Errol Ferree	G 1904* Associate in Psychology, Bryn Mawr College	Bryn Mawr, Pa.
Ervin Sidney Ferry	U 1889*† (Purdue CF 1909) Professor of Physics, Purdue University	Lafayette, Ind.
Claud William Leroy Filkins	U 1893* Civil Engineer, Wm. Wharton, Jr., and Company, Inc.	Philadelphia, Pa.
John Charles Lounsbury Fish	U 1892* (Standard CF 1902) Professor of Railroad Engineering, Leland Stanford Junior University	Palo Alto, Cal.
Pierre Augustine Fish	U 1890*† Professor of Veterinary Physiology, Cornell University	Ithaca, N. Y.
Carl Wallace Fisher	U 1901 Veterinarian	San Mateo, Cal.
Henry Wright Fisher	U 1888* Chief Engineer, Standard Underground Cable Company	Berth Amboy, N. J.
Mary Jones Fisher	U 1906 Girls' Science School	Madrid, Spain
Wager Fisher	U 1899 Consulting Engineer	Philadelphia, Pa.
Willard James Fisher	G 1907* Instructor in Physics, Cornell University	Ithaca, N. Y.
Clifford Penny Fitch	U 1911 Instructor in Bacteriology, New York State Veterinary College	Ithaca, N. Y.
William Benjamin Flite	G 1899* (Columbia F 1911) Professor of Mathematics, Columbia University	New York City

Warren Beebe Flanders	U 1902 Mechanical Engineer	Wilksburg, Pa.
Thomas Fleming, Jr	U 1905 Chester and Fleming, Consulting Engineers	Pittsburgh, Pa.
Philena Belle Fletcher (Mrs William Harrison Homer, Jr)	U 1904	Provo, Utah
Charles Frederick Flocken	U 1901 Bacteriologist, U. S. Bureau of Animal Industry	Washington, D. C.
Alan Estis Flowers	U 1902* (Missouri F 1905) Assistant Professor of Electrical Engineering, University of Missouri	Columbia, Mo.
Arthur Lee Foley	G 1897* (Indiana CF 1904) Professor of Physics, Indiana University	Bloomington, Ind.
Frederick Jackson Folk (Deceased 1903)	U 1901	
James Alfred Foord	G 1902 Head of Division of Agriculture, Massachusetts Agricultural College	Amherst, Mass.
Edward Thaddeus Foote	U 1906 Engineer, Cutler-Hammer Manufacturing Company	Milwaukee, Wis.
Hannibal Choate Ford	U 1903 Mechanical Engineer, The Sperry Gyroscope Company	New York City
Walter Stebbins Ford	F 1911 Assistant Professor of Electrical Engineering, Cornell University	Ithaca, N. Y.
Alexander Hardie Forman	G 1909 Instructor in Physics, Cornell University	Ithaca, N. Y.
Edwin John Fort	U 1893 Civil Engineer	Brooklyn, N. Y.
Henry Hubbard Foster	U 1899 Ottawa University	Ottawa, Canada
Fred William Foxworthy	G 1903* Botanist, Biological Laboratory, Bureau of Science	Manila, P. I.
Samuel Fraser	F 1905 Fruit Grower and Nurseryman	Geneseo, N. Y.
Henry North Frear	G 1909 Chemist, General Electric Company	Harrison, N. J.
Edward Elway Free	U 1906* Physicist, Bureau of Soils, U. S. Department of Agriculture	Washington, D. C.
Alfred Freeman	U 1898 Architect	New York City
James Benton French	A 1888 Consulting Bridge Engineer	Jamaica, N. Y.
Walter Edward Fritz	U 1911	Buffalo, N. Y.
Howard Brett Frost	G 1911 Assistant, Department of Horticulture, Cornell University	Ithaca, N. Y.
John Martin Fry	U 1911	Ephrata, Pa.
Estevan Antonio Fuertes (Deceased 1903)	F 1894†	

Louis Agassiz Fuertes	A 1905*† Ornithologist and Illustrator	Ithaca, N. Y.
Lucius B Fuller	U 1906 General Manager, Beaver River Power Company	Boise, Ida.
Paul Frederick Gaehr	U 1902* Professor of Physics, Wells College	Aurora, N. Y.
Henry Phelps Gage	U 1908 Physicist, Corning Glass Works	Corning, N. Y.
Otis Amsden Gage	G 1904 (Wisconsin F 1907) Assistant Professor of Physics, University of Wisconsin	Madison, Wis.
Simon Henry Gage	F 1908*† Professor Emeritus of Histology and Embryology, Cornell University	Ithaca, N. Y.
Susanna (Phelps) Gage (Mrs Simon Henry Gage)	A 1888*† Investigator	Ithaca, N. Y.
Victor Raymond Gage	G 1910 Instructor in Experimental Engineering, Cornell University	Ithaca, N. Y.
Charles Stuart Gager	G 1901* Director, Brooklyn Botanical Garden	Brooklyn, N. Y.
Frederic Freelinghuysen Gaines	U 1895 Superintendent of Motive Power, Central of Georgia Railroad	Savannah, Ga.
Alexander Sarkis Galajikian	U 1909 Instructor in Physics, Cornell University	Ithaca, N. Y.
Haig Galajikian	U 1911 Graduate Student in Mathematics, Cornell University	Ithaca, N. Y.
Francis Edward Gallagher	U 1906* Consulting Chemist, Arthur D. Little, Inc.	Boston, Mass.
Sidney Longman Galpin	G 1909 Instructor in Geology, Cornell University	Ithaca, N. Y.
Eleanor A McCulloch Gamble	G 1898* Professor of Psychology, Wellesley College	Wellesley, Mass.
Ray Willard Gannett	U 1905 Veterinarian	Brooklyn, N. Y.
Laura Gano	G 1906 Botanist	West Richmond, Ind.
Arthur Sellars Garrett	U 1897 President, American Water Softener Company	Philadelphia, Pa.
Ferd Guy Gasche	U 1890 Mechanical Engineer, Illinois Steel Company	Chicago, Ill.
Robert Harvey Gault	U 1902 Assistant Professor of Psychology, Northwestern University	Evanston, Ill.
Howard Earl Geer	U 1901 Construction Manager, Raymond Concrete Pile Company	New York City
Jennie Wither Geer (Deceased 1906)	U 1898	
William Chauncey Geer	U 1902* Chief Chemist, The B. F. Goodrich Company	Akron, Ohio

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Ray Stewart Gehr	U 1906 Patent Lawyer	Washington, D. C.
Ludwig Reinhold Geissler	G 1908* Research Psychologist, National Electric Lamp Association	Cleveland, Ohio
Walter Hudson Gelder	U 1898 General Manager, Lawton Limestone Company	Canandaigua, N. Y.
Lewell T Genung	U 1897 Physician	Worcester, N. Y.
Nelson Howard Genung	F 1892 Vice-President, Coatesville Boiler Works	New York City
Martin Hughes Gerry	G 1894† Chief Engineer and General Manager, Missouri River Power Company	Helena, Mont.
Bancroft Gherardi	G 1894 Engineer of Plant, American Telephone and Telegraph Company	New York City
Harley Stuart Gibbs (Deceased 1899)	U 1898	
Roswell Clifton Gibbs	G 1908 Instructor in Physics, Cornell University	Ithaca, N. Y.
Walter Scott Giele	U 1906 Mechanical Engineer, Harrison Safety Boiler Works	Philadelphia, Pa.
Arthur Witter Gilbert	G 1908* Professor of Plant Breeding, Cornell University	Ithaca, N. Y.
Adam Capen Gill	F 1895*† Assistant Professor of Mineralogy and Petrography, Cornell University	Ithaca, N. Y.
David Clinton Gillespie	F 1909 Instructor in Mathematics, Cornell University	Ithaca, N. Y.
Horace Wadsworth Gillett	U 1906 Manager, Research Department, Aluminum Castings Company	Detroit, Mich.
Gertrude Assheton Gillmore	U 1901 Teacher of Nature Study, City Normal School	Detroit, Mich.
John Washington Gilmore	F 1906*† President, Agricultural College of Hawaii	Honolulu, H. I.
Ralph John Gilmore	G 1911 Instructor in Zoology, Cornell University	Ithaca, N. Y.
Ward Giltner	U 1906 Instructor in Bacteriology, Michigan Agricultural College	East Lansing, Mich.
Charles Stephen Gladden	U 1900 Assistant Engineer, C. O. Lenz Consulting Engineer	New York City
Frank Conant Gobel	U 1903 Electric Draftsman	Brooklyn, N. Y.
Otto Louis Goehle	U 1905 Physician, St. Mary's Free Hospital	New York City
Julius Goettsch	U 1902 Sales Engineer, Western Electric Company	Chicago, Ill.
Clarence Jeremiah Gompf	U 1902 In charge of Design and Drafting, The Western Mott Company	Flint, Mich.

James Franklin Goodman	U 1899	Kansas City, Mo.
Secretary, Anson Lumber Company		
George Huntly Gordon	U 1905	Kingston, Ont.
Mechanical Engineer		
William Alexander Gordon	U 1896	Shelton, Conn.
Superintendent, Birmingham Iron Foundry		
Margaret Graham	G 1909	Jersey City, N. J.
Student		
Louis Caryl Graton	A 1905*	Cambridge, Mass.
Assistant Professor of Mining Geology, Harvard University		
Clyde D Gray	U 1900	New York City
Assistant Electrical Engineer, J. G. White and Company		
Leslie Jackson Gray	U 1896	Pittsburgh, Pa.
Assistant to General Superintendent, American Steel and Wire Company		
Isabella Moore Green	G 1896	Mt. Washington, Los Angeles, Cal.
(Mrs Willett Lepley Hardin)		
William Benjamin Gregory	G 1908*	New Orleans, La.
Professor of Experimental Engineering, Tulane University		
Harriet Elizabeth Grotecloss	A 1888	Palo Alto, Cal.
(Mrs Charles David Marx)		
Eugene Julius Grow	G 1897	Washington, D. C.
Surgeon in U. S. Army, Naval Department		
Omar Ray Gullion	F 1906	Eugene, Ore.
Physician		
Walter David Gundelfinger	U 1904	
(Deceased 1908)		
Henry Ralph Gundlach	U 1911	Back River, Md.
Daniel Webster Gunner	U 1887	
(Deceased 1887)		
Edward Charles Hager	U 1895	Syracuse, N. Y.
Assistant Superintendent, Solvay Process Company		
Clarence Frederic Hale	G 1909	Middletown, Conn.
Robert Sever Hale	U 1893	Boston, Mass.
Special Research, Edison Electric Illuminating Company		
Elmer Edgar Hall	G 1902* (California F 1902)	Berkeley, Cal.
Associate Professor of Physics, University of California		
Thomas Hall	G 1893	Ridgway, Pa.
Superintendent, Ridgway Dynamo and Engine Company		
Harry Richmond Halloran	U 1906	Sidney, N. S. W.
Assistant Electrical Engineer		
Frederick Arthur Halsey	A 1888†	New York City
Associate in Engineering, Columbia University		
Henry George Hamann	U 1892	Swampscott, Mass.
Electrical Engineer		
Alice Julia Hamlin	G 1895	Lincoln, Neb.
(Mrs Edgar Lenderson Hinman)		

- Alfredo Gottlieb Hammar U 1907 Washington, D. C.
Bureau of Entomology, Department of Agriculture
- Adalbert Harding U 1897 Cambridge, Mass.
Contracting Engineer
- Harry Alexis Harding G 1909† Geneva, N. Y.
Bacteriologist, N. Y. Agricultural Experiment Station
- Isabella Moore Green Hardin G 1896 Mt. Washington, Los Angeles, Cal.
(Mrs Willett Lepley Hardin)
- Clarence Melvin Haring U 1904 (California F 1905) Berkeley, Cal.
Instructor in Veterinary Science and Bacteriology, University of California
- Cebern Dodd Harris G 1902 Louisville, Ky.
Production Manager, Strater Bros. Tobacco Company
- Charles William Harris U 1905 (Washington F 1907) Seattle, Wash.
Instructor in Civil Engineering, University of Washington
- Franklin Stewart Harris G 1910 Logan, Utah
Professor of Agronomy, Utah Agricultural College
- Gilbert Dennison Harris A 1887*† Ithaca, N. Y.
Professor of Paleontology and Geology, Cornell University
- Lena Harris U 1901 Brooklyn, N. Y.
Teacher of Mathematics, Manual Training High School
- Rollin Arthur Harris G 1892*† Washington, D. C.
Mathematician, U. S. Coast and Geodetic Survey
- Leon Wilson Hartman G 1899* Reno, Nev.
Professor of Physics, University of Nevada
- Frederick Zeller Hartzell G 1909 Fredonia, N. Y.
Entomologist, N. Y. Agricultural Experiment Station
- Lelia Jefferson Harvie U 1901 Columbus, Ohio
(Mrs Samuel Jackson Barnett)
- Philip Bevier Hasbrouck U 1896 North Yakima, Wash.
Fruit Raising
- Eugene Elwin Haskell F 1907*† Ithaca, N. Y.
Director, College of Civil Engineering, Cornell University
- Charles Nelson Haskins F 1905* (Illinois F 1906) Hanover, N. H.
Assistant Professor of Mathematics, Dartmouth College
- Erwin Ernest Haslam A 1907 Buffalo, N. Y.
Field Engineer, International Waterway Commission
- Heinrich Hasselbring U 1899*† Washington, D. C.
Chief Botanist, Bureau of Plant Industry
- George Tracy Hastings U 1898 New York City
Instructor in Biology, DeWitt Clinton High School
- Thomas Wood Hastings F 1907* New York City
Professor of Pathology, Cornell University Medical College
- Arthur Stafford Hathaway F 1888 Terre Haute, Ind.
Professor of Mathematics, Rose Polytechnic Institute
- Joseph Henry Hathaway F 1906 Louisville, Ky.
Professor of Anatomy, University of Louisville

William Kendrick Hatt	G 1891*†	Lafayette, Ind.
Professor of Civil Engineering, Purdue University		
Max Haupt	U 1906	Philadelphia, Pa.
Architect, Anderson and Haupt		
Lee Fred Hawley	G 1905	Madison, Wis.
Chemist, Forest Products Laboratory		
Kiyonori Hayashi	U 1904	Namazu Shizuoka-Ken, Japan
Master Mechanic, Namazu Imperial Government Railway Works		
Rud Bryant Hayes	U 1902	Ithaca, N. Y.
Superintendent of Light, Heat and Power, Cornell University		
Samuel Perkins Hayes	G 1906*	South Hadley, Mass.
Professor of Psychology, Mt. Holyoke College		
Stanley Wolcott Hayes	U 1891	Richmond, Ind.
President, Hayes Track Appliance Company		
John Fillmore Hayford	F 1897 (Northwestern F 1897)	Evanston, Ill.
Director of College of Engineering, Northwestern University		
Harry Hayward	U 1894	Newark, Del.
Director, Delaware College Experiment Station		
John Kerfoot Haywood	U 1896	Washington, D. C.
Chemist, Bureau of Chemistry, U. S. Department of Agriculture		
Thomas J Headlee	G 1906	Manhattan, Kan.
Professor of Entomology, State Agricultural College		
Zillah Heidenheim (Mrs Ernest S Jaros)	U 1902	Columbus, Ohio
Walter Ferdinand Heise	U 1911	Wilmington, Del.
Draftsman, American Bridge Company		
Charles Louis Heisler	U 1890	St. Marys, Ohio
Engineer, The Heisler Company		
Edward Heitmann	U 1895	St. Catherines, Ont.
Chief Engineer, Canadian Crocker Wheeler Company		
Louise Hempstead	U 1900	Meadville, Pa.
Newspaper Work		
Marguerite Hempstead (Mrs Benjamin Freeman Kingsbury)	U 1900	Ithaca, N. Y.
William Williams Henderson	G 1905	Ogden, Utah
Principal, Weber Academy		
George Lansing Hendrickson	U 1911	Pittsburgh, Pa.
Draftsman and Resident Engineer with Chester and Fleming		
Glenn Washington Herrick	U 1896*	Ithaca, N. Y.
Assistant Professor of Entomology, Cornell University		
Howard Drysdale Hess	F 1906	Ithaca, N. Y.
Professor of Machine Design, Cornell University		
Charles Elbert Hewitt	G 1895	Chatham, N. J.
Engineer and Contractor		
Herbert Wade Hibbard	G 1891* (Minnesota CF 1896)	Columbia, Mo.
Professor of Mechanical Engineering, University of Missouri		

Edwin Barker Higby	G 1896 Architect	Rochester, N. Y.
Seth Morton Higby	U 1897 Chief Draftsman	East Orange, N. J.
Reuben Paul Higgins	U 1902 Physician and Surgeon	Cortland, N. Y.
Edward Raymond Hildreth	U 1908 Physician, Presbyterian Hospital	San Juan, Porto Rico
Agnes Sime Baxter Hill (Mrs Albert Ross Hill)	G 1894	Columbia, Mo.
Ernest Rowland Hill	U 1893 Gibbs and Hill, Electrical Engineers	East Orange, N. J.
George Richard Hill	G 1910 Instructor in Agriculture, Cornell University	Ithaca, N. Y.
Ida May Hill (Mrs William Dalton)	U 1890	Schenectady, N. Y.
Robert Thomas Hill	A 1888*† Editor, American Geologist	Washington, D. C.
William Arthur Hillebrand	U 1905* (Stanford F 1905) Professor of Electrical Engineering, Oregon Agricultural College	Corvallis, Ore.
Meier George Hilpert	U 1901 Assistant Engineer, Pennsylvania Steel Company	Steelton Pa.
William Atwood Hilton	U 1899* Instructor in Anatomy, University of Minnesota	Minneapolis, Minn.
Alice (Hamlin) Hinman (Mrs Edgar Lenderson Hinman)	G 1895	Lincoln, Neb.
Clarence Floyd Hirshfeld	G 1903* (California G 1910) Professor of Power Engineering, Cornell University	Ithaca, N. Y.
Emmet Francis Hitch	G 1911 Instructor in Chemistry, Cornell University	Ithaca, N. Y.
William Ricketson Hoag	A 1887*† (Minnesota CF 1896) Professor of Civil Engineering, University of Minnesota	Minneapolis, Minn.
Stephen Galusha Hobert	U 1896 Consulting Engineer	Chicago, Ill.
Mary (McClure) Hobert (Mrs Charles Boone Hobert)	U 1900	Vera Cruz, Mexico
Percy Hodge	G 1908 Professor of Physics, Stevens' Institute	Hoboken, N. J.
John Raymund Hoffert	U 1911 Assistant Superintendent, Harrisburg Park Commission	Harrisburg, Pa.
Jessie Allen Holmes (Mrs H I Moody)	U 1898	Brooklyn, N. Y.
Joseph Austin Holmes	A 1888*† Director, U. S. Bureau of Mines	Washington, D. C.
Major Edward Holmes	G 1910	Kempton, Ind.
Philena Fletcher Homer (Mrs William Harrison Homer, Jr)	U 1904	Provo, Utah

Bert Raymond Hoobler	U 1905 Physician	New York City
Elon Huntington Hooker	U 1894 President, Hooker Electro-chemical Company	New York City
Cyril George Hopkins	G 1894* (Illinois CF 1903) Professor of Agronomy, University of Illinois	Urbana, Ill.
Grant Sherman Hopkins	F 1891*† Professor of Veterinary Anatomy, Cornell University	Ithaca, N. Y.
Howard Corwin Hopkins	U 1903 Civil Engineer	Los Angeles, Cal.
Herbert Andrew Hopper	U 1903 (Illinois CF 1903) Farmer	Ithaca, N. Y.
John Wesley Hornbeak	G 1911 Instructor in Physics, University of Illinois	Urbana, Ill.
Homer James Hotchkiss	F 1891* Professor of Physics, Drexel Institute	Philadelphia, Pa.
Charles Edwin Houghton	G 1894 Associate Professor of Mechanical Engineering, New York University	New York City
Clinton Osborne Houghton	U 1902* Entomologist, Professor of Biology, Delaware College	Newark, Del.
Arthur Earl Houlehan	G 1910 Instructor in Chemistry, Cornell University	Ithaca, N. Y.
John Samuel Houser	G 1911 Assistant Entomologist, Ohio Agricultural Experiment Station	Wooster, Ohio
William Simmons Hovey	U 1897 General Superintendent, Sheffield Car Company	Three Rivers, Mich.
Anna Townsend Howard (Mrs Charles Walter Howard)	U 1903	New York City
Charles Walter Howard	U 1904* Entomologist, Rockefeller Institute	New York City
Leland Ossian Howard	A 1887*† Chief Entomologist, U. S. Department of Agriculture	Washington, D. C.
Anna Mayme Howe	G 1911	Jordan, N. Y.
Samuel Purdy Howe	U 1902 President, Camden Forge Company	Camden, N. J.
John Eaton Howitt	G 1906 Department of Botany, Ontario Agricultural College	Guelph, Ont.
David Fletcher Hoy	G 1893 Registrar, Cornell University	Ithaca, N. Y.
Tung Chao Hu	U 1905 Chief Engineer, Szechuen-Hankow Railroad	Canton, China
George David Hubbard	G 1905* (Ohio F 1907) Professor of Geology, Oberlin College	Oberlin, Ohio
Benjamin S Hubbell	U 1903 Hubbell and Benes, Architects	Cleveland, Ohio
Frederick Bernhard Hufnagel	U 1900 Superintendent of Rolling Mills, Jones and Laughlin Steel Company	Pittsburgh, Pa.

Eugene Peter Humbert	G 1910	Ithaca, N. Y.
Calvin B Humphrey	G 1890	New York City
Vice-President, The White Investing Company		
Clarence John Humphrey	F 1907* (Nebraska G 1906)	Madison, Wis.
Assistant in Forestry, University of Wisconsin		
Oswald D Humphrey	G 1894	New York City
City Training School for Teachers		
Joseph Wynne Hungate	G 1910	Cheney, Wash.
Head of Biology, State Normal School		
Andrew Hunter	F 1909*	Ithaca, N. Y.
Assistant Professor of Chemistry, Cornell University		
Albert Henry Huntington	U 1902	St. Louis, Mo.
Assistant Principal, Central High School		
Otto Fred Hunziker	G 1901 (Purdue F 1908)	Lafayette, Ind.
Professor of Dairy Industry, Purdue University		
John Irwin Hutchinson	F 1896*	Ithaca, N. Y.
Professor of Mathematics, Cornell University		
Robert Leroy Hutton	U 1903	Ridgewood, N. J.
Physician		
Tom Bruce Hyde	F 1911	Ithaca, N. Y.
Instructor in Experimental Engineering, Cornell University		
Francis Pierce Ide	U 1892	Springfield, Ill.
Manufacturer		
James Franklin Illingworth	G 1911	Ithaca, N. Y.
Graduate Student in Entomology, Cornell University		
Louis Illmer	F 1906	Reading, Pa.
Manager, Gas Engine Department, Reading Iron Company		
Helen Isham	U 1903* (Illinois F 1907)	Urbana, Ill.
Associate in Chemistry, University of Illinois		
Robert Austin Ives	U 1902	Ithaca, N. Y.
Mechanical Engineer		
Dugald Caleb Jackson	F 1894*†	Boston, Mass.
Professor of Electrical Engineering, Massachusetts Institute of Technology		
Herbert Spencer Jackson	U 1905	Corvallis, Ore.
Professor of Botany, Oregon Agricultural College		
Julius Lilien Jacobs	U 1904	Houston, Tex.
Resident Manager, James Stewart and Company, Contractors		
Edmund Jacobson	G 1911	Chicago, Ill.
Medical Student, University of Chicago		
Henry Sylvester Jacoby	F 1893*†	Ithaca, N. Y.
Professor of Bridge Engineering, Cornell University		
Zillah Heidenheim Jaros	U 1902	Columbus, Ohio
(Mrs Ernest S Jaros)		
Chester Deacon Jarvis	G 1906	Storrs, Conn.
Horticulturist, Storrs Agricultural Experiment Station		
Henry William Jeffers	U 1898	Plainsboro, N. J.
Manager, Walter-Gordon Milk Producing Plant		

- David John Jenkins U 1892 Milton, Pa.
Electrical Engineer
- Eldred Lewellyn Jenne U 1907* Washington, D. C.
Entomologist, Bureau of Entomology, U. S. Department of Agriculture
- Christian Nepht Jensen G 1911 Logan, Utah
Professor of Botany and Plant Pathology, Utah Agricultural College
- Gerhard Hemming Jensen U 1899 (Chicago G 1902) Evanston, Ill.
Assistant Professor of Botany, Northwestern University
- Willis Linn Jepson G 1895* (California CF 1901) Berkeley, Cal.
Assistant Professor of Botany, University of California
- Henry Rose Jessel U 1889 Pittsburgh, Pa.
Chief Chemist, William B. Scaife and Sons Company
- Harold Frederick Jewett U 1903 Auburndale, Mass.
Foreman, M. P. Department, Boston and Albany Railroad
- Francis Eugene Yeates Joannes U 1900 New York City
Architect
- Oskar Augustus Johannsen G 1902* Orono, Me.
Professor of Entomology, University of Maine
- Harold Eddy Johnston U 1902 Cohoes, N. Y.
Manager, The Cohoes Iron Foundry and Machine Company
- Oscar Perry Johnston G 1903 (Colorado F 1906) Chicago, Ill.
Physician
- Clement Ross Jones G 1900* Morgantown, W. Va.
Dean, College of Engineering, West Virginia University
- Forrest Robert Jones U 1888† Knoxville, Tenn.
Mechanical and Electrical Engineer
- Frederick Sowden Jones F 1911 Ithaca, N. Y.
Instructor in Veterinary Medicine, Cornell University
- Lloyd Balderston Jones U 1904 Westgrove, Pa.
Assistant Master Mechanic, Pennsylvania Railway
- David Starr Jordan A 1887*† (Stanford CF 1902) Palo Alto, Cal.
President, Leland Stanford Junior University
- Maurice Grenville Kains G 1897 New York City
Associate Editor, American Agriculturist
- Leopold Kann G 1899 Vienna, Austria
- Vladimir Karapetoff F 1905* Ithaca, N. Y.
Professor of Electrical Engineering, Cornell University
- Louise Waldeman Katz U 1900 Berkeley, Cal.
Cataloguer, University of California
- Calvin Henry Kauffman G 1903* (Michigan F 1904) Ann Arbor, Mich.
Assistant Professor of Botany, University of Michigan
- Joseph Keele G 1910 Ottawa, Canada
Geologist, Canadian Geological Survey
- Karl Frederic Kellerman U 1900*† Washington, D. C.
Physiologist, Bureau of Plant Industry, U. S. Department of Agriculture
- Frederick Williams Kelley U 1893 Albany, N. Y.
Vice-President, Manager, Heldenberg Cement Company

Weston Maynard Kelsey	U 1905 Chemist	Mineral Point, Wis.
James Furman Kemp	F 1887*† (Columbia CF 1903) Professor of Geology, Columbia University	New York City
Otis Allen Kenyon	U 1904 Electrical Engineer	Hastings-on-Hudson, N. Y.
Abram Tucker Kerr	F 1901*† Professor of Anatomy, Cornell University	Ithaca, N. Y.
Armin George Kessler	F 1909 General Manager, Lakeside Forge Company	Erie, Pa.
Frederick Edward Kester	G 1899* (Ohio F 1898) Professor of Physics, University of Kansas	Lawrence, Kan.
Dexter Simpson Kimball	F 1899*† Professor of Machine Design, Cornell University	Ithaca, N. Y.
Edward Martin Kindle	G 1897* Geologist, U. S. Geological Survey	Washington, D. C.
Clifford Marshall King	U 1904 Civil Engineer	Sandusky, Ohio
Jessie Luella King	G 1911 Instructor in Physiology, Goucher College	Baltimore, Md.
Walter Edward King	G 1905* Assistant Director of Laboratory, Parke Davis Company	Detroit, Mich.
Albert Kingsbury	U 1889*† Consulting Engineer	Pittsburgh, Pa.
Benjamin Freeman Kingsbury	G 1894*† Professor of Histology and Embryology, Cornell University	Ithaca, N. Y.
Marguerite (Hempstead) Kingsbury	U 1900 (Mrs Benjamin Freeman Kingsbury)	Ithaca, N. Y.
John Knickerbacker	CG 1886 President, Eddy Valve Company	Waterford, N. Y.
Charles Tobias Knipp	G 1899* (Illinois CF 1903) Assistant Professor of Physics, University of Illinois	Urbana, Ill.
James Somerville Knowlson	U 1905 General Electric Company	Schenectady, N. Y.
Lewis Knudson	G 1908 Assistant Professor of Plant Physiology, Cornell University	Ithaca, N. Y.
Sidney Graves Koon	U 1902 Publicity Engineer	Boston, Mass.
Harry Kornfeld	U 1911 With the Mississippi River Power Company	Keokuk, Ia.
Frederick Lawrence Kortright	U 1890* Professor of Chemistry, West Virginia University	Morgantown, W. Va.
William George Kranz	U 1893 Manager, National Malleable Castings Company	Sharon, Pa.
William Christopher Krauss	A 1903† (Deceased 1909)	

Frederick Hartzler Krecker	G 1906	Marietta, Ohio
Professor of Biology, Marietta College		
James Edward Kress	U 1891	Johnstown, Pa.
Engineer of Tests		
Fred Hutton Kroger	F 1906 (Colorado G 1905)	Brooklyn, N. Y.
Engineer, National Electric Signalling Company		
Harry Waldo Kuhn	G 1899* (Ohio F 1900)	Columbus, Ohio
Professor of Mathematics, Ohio State University		
Joseph Kuhn	U 1892	Buffalo, N. Y.
Secretary and Treasurer, Smelting Company		
Ford Kurtz	U 1907	New York City
Assistant Engineer, J. G. White and Company, Inc		
Harold Newton Kutschbach	U 1910	Sherburne, N. Y.
Farmer		
Kathryn Belle Kyser	G 1908	Pueblo, Mexico
Missionary		
Herbert Henry Landers	U 1890	
(Deceased 1893)		
Alexander Suss Langsdorf	G 1901	St. Louis, Mo.
Dean of Schools of Engineering, Washington University		
Burton Smith Lanphear	U 1894	
(Deceased 1904)		
Charles Benham Larzelere	U 1897	Culebra, C. Z.
Engineer, Isthmian Canal Commission		
James Law	F 1894†	Ithaca, N. Y.
Professor Emeritus of Veterinary Medicine, Cornell University		
Frank Elmaker Lawrence	U 1896	Macon, Ga.
Supervisor of Track, Central of Georgia Railroad		
Henry Edmund Lawrence	G 1895*	Rochester, N. Y.
Professor of Physics, University of Rochester		
William Hurford Lawrence	G 1907	Puyallup, Wash.
Director, Western Washington Agricultural Experiment Station		
Robert Phinney Lay	F 1909	Syracuse, N. Y.
Chief Draftsman, H. H. Franklin Manufacturing Company		
William Rane Lazenby	A 1887*† (Ohio CF 1898)	Columbus, Ohio
Professor of Horticulture and Forestry, Ohio State University		
Joseph Nisbet Le Conte	G 1892* (California CF 1901)	Berkeley, Cal.
Associate Professor of Mechanical Engineering, University of California		
Henry Leighton	U 1906	Albany, N. Y.
Assistant to State Geologist		
Clyde Evert Leighty	G 1910	Ithaca, N. Y.
Assistant in Plant Breeding, Cornell University		
Ora Miner Leland	F 1906*	Ithaca, N. Y.
Assistant Professor of Astronomy and Geodesy, Cornell University		
Stephen Rose Leonard	U 1895	Oneida, N. Y.
Second Vice-President, Oneida Community, Ltd.		

Arthur Bernard Levy	G 1890 Stock Broker	New York City
Charles Edward Lewis	G 1904* (Wisconsin F 1907) Associate Plant Pathologist, Agricultural Experiment Station	Orono, Me.
Claude Isaac Lewis	G 1906 Professor of Horticulture, State Agricultural College	Corvallis, Ore.
George William Lewis	G 1910 Assistant Professor, Mechanical Engineering, Swarthmore College	Swarthmore, Pa.
John Howard Lewis	U 1903 State Engineer	Salem, Ore.
Edwin Fuller Lines	U 1904* Geologist, U. S. Geological Survey	Washington, D. C.
Orlando Hayward Linton	U 1906 Civil Engineer	Truro, N. S.
Jacob Goodale Lipman	G 1900* Director of Agricultural Experiment Station, Rutgers College	New Brunswick, N. J.
Kenneth Carter Livermore	U 1909 Instructor in Agriculture, Cornell University	Ithaca, N. Y.
John Thomas Lloyd	U 1910 Instructor in Entomology, Cornell University	Ithaca, N. Y.
Ernest Gustavus Loderman (Deceased 1896)	F 1893	
Edith Loeber	U 1903 Physician	New Orleans, La.
Henry Charles Lomb	U 1894 Bausch and Lomb Optical Company	Rochester, N. Y.
Clarence Edward Loomis (Deceased 1891)	U 1888	
Alfred James Lotka	G 1909 Editor, Scientific American Staff	New York City
Frank William Love	U 1894 Physician	Buffalo, N. Y.
Harry Houser Love	G 1908 Professor of Plant Breeding, Cornell University	Ithaca, N. Y.
Earl Brink Lovell	U 1891 (Columbia CF 1903) Professor of Civil Engineering, Columbia University	New York City
Andrew Jackson Lowndes	U 1905 Superintendent, Pacific Coast Steel Company	San Francisco, Cal.
Justin Wyman Ludlow	U 1903 Assistant Professor of Mechanics, Lewis Institute	Chicago, Ill.
Gustave Ernst Frederick Lundell	G 1909 Instructor in Chemistry, Cornell University	Ithaca, N. Y.
James Lyman	G 1895 Engineer, Sargent and Lundy, Steam, Mechanical and Electrical Engineers	Chicago, Ill.
Richard Roswell Lyman	G 1904* Professor of Civil Engineering, University of Utah	Salt Lake City, Utah

Sophie Harriet Lyndon (Mrs Arthur Wescott Cowell)	U 1906	Cheswick, Pa.
Thomas Lyttleton Lyon	F 1907*† (Nebraska CF 1897) Professor of Soil Technology, Cornell University	Ithaca, N. Y.
Alexander Dyer MacGillivray	G 1900*† Assistant Professor of Entomology, University of Illinois	Urbana, Ill.
John Givan Davis Mack	A 1888 (Wisconsin CF 1907) Professor of Machine Design, University of Wisconsin	Madison, Wis.
Winfred Berdell Mack	U 1904 Professor of Veterinary Science, University of Nevada	Reno, Nev.
William MacKintosh	U 1896 President, MacKintosh Barbour Company	Oklahoma City, Okla.
Murray Macneill	G 1898 Professor of Mathematics, Dalhousie College	Halifax, N. S.
Irwin John Macomber	G 1894 Mechanical Engineer	Richmond Hill, N. Y.
William Watts Macon	U 1898 Editor, The Iron Age	Brooklyn, N. Y.
William Henry Magee	G 1893 Teacher	Annapolis Royal, N. S.
John Peter Magnusson	G 1906* Professor of Physics and Chemistry, Augustana College	Rock Island, Ill.
Joseph Plaisted Maider	U 1911	Phoenix, N. Y.
Kengo Makino	G 1909	Takahashi, Japan
William Garfield Mallory	G 1910 Professor of Physics, Randolph-Macon College	Ashland, Va.
Charles Matthews Manly	U 1898 Vice-President, Manly Drive Company	New York City
Albert Russell Mann	U 1904 Secretary of College of Agriculture, Cornell University	Ithaca, N. Y.
Paul Blakeslee Mann	G 1903 Teacher of Biology, Morris High School	New York City
Louis Benedict Marks	G 1890* Consulting Engineer	New York City
Lionel Simeon Marks	G 1894*† Professor of Mechanical Engineering, Harvard University	Cambridge, Mass.
Vernon Freeman Marsters	A 1888* Geologist, Director of Geological Survey, Republic of Peru	Lima, Peru
Anson Marstin	U 1889*† Dean of Engineering, Iowa State College	Ames, Ia.
Frank Martin	U 1900 Superintendent, Celluloid Company	Newark, N. J.
Harriett Marie Martin	G 1905 Student, Cornell University	Ithaca, N. Y.
William Franklin Martin	G 1906 Assistant Engineer	Los Angeles, Cal.

- Charles David Marx CF 1887*† (Stanford CF 1902) Palo Alto, Cal.
Professor of Civil Engineering, Leland Stanford Junior University
- Guido Hugo Marx U 1893 (Stanford CF 1902) Palo Alto, Cal.
Professor of Machine Design, Leland Stanford Junior University
- Harriet Elizabeth (Grotecloss) Marx A 1888 Palo Alto, Cal.
(Mrs Charles David Marx)
- Myrtle Lothrop Massey U 1898 Jamaica, N. Y.
Physician
- Frank Harris Masters U 1904 Chicago, Ill.
Civil Engineer, Chicago and Lake Shore Railway Company
- Robert Matheson G 1907* Ithaca, N. Y.
Instructor in Biology, Cornell University
- Clarence Wentworth Matthews U 1891* Lexington, Ky.
Professor of Horticulture, Kentucky State University
- Charles Philo Matthews G 1894
(Deceased 1907)
- Carlotta Joaquina Maury G 1898* New York City
Lecturer on Geology, Barnard College, Columbia University
- Fred Baldwin Maxwell G 1892
(Deceased 1907)
- Edwin Charles Mayer U 1909 Ithaca, N. Y.
Instructor in Physics, Cornell University
- Harry Welday Mayes U 1911 Ithaca, N. Y.
Graduate Student, Cornell University
- Walter John Maytharm U 1902 Jackson, Mich.
Peninsular Engineering and Construction Company
- Addams Stratton McAllister G 1901 New York City
Associate Editor, Electrical World
- Ellen S McCarthy U 1907 (Illinois F 1909) Urbana, Ill.
Instructor in Chemistry, University of Illinois
- Elmer James McCaustland F 1903* Seattle, Wash.
Professor of Municipal Engineering, University of Washington
- Hugh Herbert McClellen U 1897 Troy, N. Y.
Manufacturer
- Mary Frances McClure U 1900 Vera Cruz, Mexico
(Mrs Charles Boone Hobert)
- Merris Mickey McCool G 1911 Ithaca, N. Y.
Instructor in Agriculture, Cornell University
- Ira Welch McConnell U 1900 Richfield, Ida.
Vice-President and Manager, Idaho Irrigation Company, Ltd.
- Bradley Thomas McCormick U 1903 Montreal, Canada
Engineer, Allis-Chalmers-Bullock Company
- Walter Edward McCourt U 1904* St. Louis, Mo.
Assistant Professor of Geology, Washington University
- George Lewis McCracken U 1903 Ithaca, N. Y.
Teacher

- George Robert McDermott F 1906† Ithaca, N. Y.
Professor of Naval Architecture, Cornell University
- Louise Sherwood McDowell G 1907 Wellesley, Mass.
Associate Professor of Physics, Wellesley College
- Richard Smyth McGowin U 1898 Philadelphia, Pa.
Shoe Department, John Wanamaker
- William John McKee F 1910 Etna, Pa.
- Frederic James Alexander McKittrick G 1896 Buenos Aires, Argentina
Managing Director, South American General Electric Company
- Henry Crane McLallen U 1898 Trumansburg, N. Y.
Agriculturist
- James McMahan F 1890*† Ithaca, N. Y.
Professor of Mathematics, Cornell University
- Frederick Henry McNair G 1906 Berkeley, Cal.
City Veterinarian
- Robert Joseph McNitt U 1894 Perth Amboy, N. J.
Assistant, Roessler and Hasslacher Chemical Company
- Daniel John Meador, Jr U 1911 Selma, Ala.
Assistant State Veterinarian
- Caroline Wallace Merrell U 1902 Philadelphia, Pa.
Teacher
- Earl Abbott Merrill G 1892 New York City
Office Manager, McIntosh and Seymour Company
- Ernest George Merritt F 1888*† Ithaca, N. Y.
Dean of Graduate School, Professor of Physics, Cornell University
- August Merz G 1894 Newark, N. J.
Superintendent, Coal Tar Color Department, Heller and Merz Company
- Paul Messer U 1894 Yokohama, Japan
Chief Engineer, American Trading Company
- Joseph McConnechy Michaelson U 1892 Washington, D. C.
Expert Aid, Bureau of Yards and Docks, Navy Department
- Robert Thomas Mickle U 1892 Philadelphia, Pa.
President, Mickle-Milnor Engineering Company
- Arthur Renwick Middleton G 1903* Lafayette, Ind.
Assistant Professor of Chemistry, Purdue University
- Howard Jay Milks U 1904 Ithaca, N. Y.
Veterinarian and Bacteriologist
- Roger Alexander Millar U 1900 Lockport, N. Y.
Electrical Engineer
- George Abram Miller F 1898* (Stanford CF 1902; Illinois F 1908)
Professor of Mathematics, University of Illinois [Urbana, Ill.]
- Mary Farrand (Rogers) Miller U 1896† Elizabeth, N. J.
(Mrs Wilhelm Miller)
- Myrtle Helen Miller U 1898 New York City
Teacher of Mathematics, Morris High School
- Wilhelm Miller A 1899*† Garden City, L. I., N. Y.
Editor, Doubleday, Page and Company

Elizabeth (Bolger) Milligan (Mrs Oswald Milligan)	U 1906	Philadelphia, Pa.
Frank Edward Millis (Deceased 1903)	G 1896	
Edward Russell Minns Assistant Professor of Extension State College of Agriculture	F 1908 (Ohio U 1905)	Ithaca, N. Y.
Yataro Mishima President, Yokohoma Specie Bank	G 1890	Tokyo, Japan
Elisabeth Mitchell	G 1903 Teacher	West Lafayette, Ind.
James Francis Mitchell Assistant in Experiment Station, University of California	U 1911	Berkeley, Cal.
Küchi Miaké Professor of Botany, Botanical Institute, Imperial University	G 1901	Tokyo, Japan
Fred A Molby Instructor in Physics, Cornell University	G 1908	Ithaca, N. Y.
George Sylvanus Moler Professor of Physics, Cornell University	CF 1886*	Ithaca, N. Y.
Agnes (Claypole) Moody (Mrs Robert Orton Moody)	G 1894*†	Berkeley, Cal.
Jessie (Holmes) Moody (Mrs H I Moody)	U 1898	Brooklyn, N. Y.
Robert Orton Moody Assistant Professor of Anatomy, University of California	F 1901* (California F 1902)	Berkeley, Cal.
Clarence Stanton Moore (Deceased 1900)	U 1898	
Emmeline Moore Teacher of Botany, New Jersey State Normal	U 1906	Trenton, N. J.
Herbert Fisher Moore Assistant Professor of Mechanics, University of Illinois [Urbana, Ill.]	U 1899* (Wisconsin CF 1906; Illinois F 1908)	
Veranus Alva Moore Director of Veterinary College, Cornell University	F 1897*†	Ithaca, N. Y.
Anna Haven Morgan Fellow, Cornell University	G 1910	Ithaca, N. Y.
James Oscar Morgan Student, Cornell University	G 1908	Horse Shoe, N. C.
Caroline (Baldwin) Morrison (Mrs Charles Theobald Morrison)	G 1895	Palo Alto, Cal.
Darwin Abbot Morton Research Chemist, Solvay Process Company	U 1895*	Syracuse, N. Y.
Sanford Alexander Moss Engineer, Turbine Research Department, General Electric Company	F 1903*	West Lynn, Mass.
Alfred Milton Moss crop Director, Dorman, Long and Co., Ltd. (England)	A 1888	Rochester, N. Y.
William Addams Moss crop Engineer of Supplies, New York Telephone Company	CU 1886	New York City

William Elton Mott	F 1903*	Pittsburgh, Pa.
Professor of Civil Engineering, Carnegie Technical Schools		
Walter Mulford	U 1901* (Michigan G 1905)	Ithaca, N. Y.
Professor of Forestry, Cornell University		
Welton Marks Munson	G 1901*†	Morgantown, W. Va.
Professor of Horticulture, University of West Virginia		
Carleton Chase Murdoch	G 1909	Ithaca, N. Y.
Instructor in Physics, Cornell University		
Daniel Alexander Murray	F 1897*	Montreal, Canada
Professor of Applied Mathematics, McGill University		
Elsie Murray	G 1906	Poughkeepsie, N. Y.
Instructor in Psychology, Vassar College		
William Alphonso Murrill	G 1893*†	New York City
Assistant Director, New York Botanical Garden		
Burton Dorr Myers	F 1900* (Indiana CF 1904)	Bloomington, Ind.
Professor of Anatomy, University of Indiana		
Charles Emory Myers	G 1911	State College, Pa.
Assistant in Horticulture, Pennsylvania State College		
Hatsune Nakano	G 1889	Tokyo, Japan
Department of Electrical Engineering, Imperial University		
Talzo Nakashima	G 1909	Tokyo, Japan
Tsunejiro Nambu	A 1888	Kumamoto, Japan
Civil Engineer		
George William Nasmyth	G 1908*	Ithaca, N. Y.
Instructor in Physics, Cornell University		
James George Needham	G 1897*†	Ithaca, N. Y.
Professor of Biology, Cornell University		
Frederick Charlesworth Neilson	U 1898	Hartford, Conn.
Assistant Inspector, Navy Department, Bureau of Steam Engineering		
Frank Davis Newbury	U 1901	Pittsburgh, Pa.
Electrical Engineer		
Spencer Baird Newbury	F 1892	Sandusky, Ohio
Chemist		
Edward Leamington Nichols	F 1887*†	Ithaca, N. Y.
Professor of Physics, Cornell University		
Ernest Fox Nichols	G 1892*† (Columbia F 1904)	Hanover, N. H.
President, Dartmouth College		
Edson Hoyt Nichols	G 1909	Philadelphia, Pa.
C. W. Nichols, Wooden Box Manufacturer		
Mary Alice Nichols (Mrs John Cox, Jr)	G 1895	Chappaqua, N. Y.
Susan Percival Nichols	U 1898	Oberlin, Ohio
Associate Professor of Botany, Oberlin College		
Frederick Noe (Deceased 1903)	U 1897	
Charles Franklin Noll	G 1911	State College, Pa.
Department of Agronomy, Pennsylvania State College		

- Harry Waldo Norris G 1889* Grinnell, Ia.
 Professor of Zoology, Grinnell College
- Henry Hutchinson Norris F 1897*† Ithaca, N. Y.
 Professor of Electrical Engineering, Cornell University
- Harold Frederick Norton U 1896 Newport News, Va.
 Draftsman, Ship Building and Dry Dock Company
- Jesse Baker Norton F 1908* Washington, D. C.
 Physiologist, Bureau of Plant Industry, U. S. Department Agriculture
- Mary Chilton Noyes G 1894* Plainesville, Ohio
 Teacher, Lake Erie College
- Vasco Emilio Nunez G 1911 Boston, Mass.
 Chemist, Arthur D. Little, Inc.
- Perley Gilman Nutting G 1903* Washington, D. C.
 Associate Physicist, Bureau of Standards
- Algernon Sidney Nye U 1888 New York City
 Civil Engineer
- Ruben Edson Nyswander, Jr G 1908 Denver, Col.
 Professor of Physics, University of Denver
- Abigail Adaline O'Brien U 1902 Utica, N. Y.
 Teacher of Science, Utica Free Academy
- Henry Neely Ogden F 1890*† Ithaca, N. Y.
 Professor of Sanitary Engineering, Cornell University
- James Edward Oliver F 1894
 (Deceased 1895)
- George Robert Olshausen F 1904* (Worcester CF 1908) Worcester, Mass.
 Assistant Professor of Electrical Engineering, Worcester Polytechnic
- James George O'Neill U 1903 Geneva, N. Y.
 Chemist, Empire Coke Company
- William Ridgely Orndorff F 1891*† Ithaca, N. Y.
 Professor of Chemistry, Cornell University
- Charles Francis Osborne F 1887 (Pennsylvania F 1904) Philadelphia,
 Professor of Architecture, University of Pennsylvania [Pa.
- Ching Ko Ow U 1909 Canton, China
- Fred William Owens F 1908 (Kansas U 1901) Ithaca, N. Y.
 Instructor in Mathematics, Cornell University
- Anna Helene Palmie G 1891* Cleveland, Ohio
 Professor of Mathematics, Western Reserve University
- George Cox Parmeter U 1888
 (Deceased 1898)
- Charles Wesley Darwin Parsons U 1897* Chicago, Ill.
 Superintendent, Central Scientific Company
- George Parsons U 1904 Winnebago, Ill.
 Engineer, Miller, Franklin and Stevenson
- George Edward Patrick A 1888† Washington, D. C.
 Dairy Chemist, U. S. Department of Agriculture
- William Edgar Patten U 1911 Shanghai, China
 Professor of Railroad Engineering, Imperial Polytechnic College

Jesse Randolph Pawling	G 1906	Ithaca, N. Y.
Assistant in Physiology, Cornell University		
Leonard Pearson	U 1888† (Pennsylvania CF 1900)	
(Deceased 1909)		
Raymond Allen Pearson	U 1894*†	Albany, N. Y.
Commissioner of Agriculture, New York State		
Ellery Newell Peck	U 1902	Sussex, N. J.
Physician		
James Clinton Peebles	G 1908	Ithaca, N. Y.
Instructor in Experimental Engineering, Cornell University		
Jessie Burnham Peirson	U 1906	Pasadena, Cal.
Teacher		
Mabel Burnham Peirson	U 1900	Pasadena, Cal.
Teacher		
Robert Allen Pendergrass	U 1900	Pittsburgh, Pa.
Draftsman, McClintic-Marshall Construction Company		
George Wilfred Penfield	U 1900	New Britain, Conn.
Civil Engineer		
Albert Silas Penney	U 1902	Adams, N. Y.
Factory Manager		
George Arthur Perley	G 1910	Durham, N. H.
Assistant Professor of Chemistry, New Hampshire College		
Irvine Perrine	G 1909	Norman, Okla.
Associate Professor of Geology, University of Oklahoma		
Clarence Arthur Perry	U 1899	New York City
Educational Investigator, Russell Sage Foundation		
John George Pertsch, Jr	G 1910	Ithaca, N. Y.
Instructor in Electrical Engineering, Cornell University		
James Harvey Pettit	U 1900*	Urbana, Ill.
Professor of Soil Fertility, University of Illinois		
Rufus Hiram Pettit	U 1895	East Lansing, Mich.
Professor of Entomology, Michigan Agricultural College		
William Henry Pfau	U 1888	Hamilton, Ohio
Paper Manufacturer		
Joseph Oliver Phelon	G 1901 (Worcester CF 1908)	Worcester, Mass.
Professor of Electrical Engineering, Worcester Polytechnic Institute		
Adams Phillips	U 1901	Concord, Tenn.
Principal, Farragut High School		
Clarence Albert Pierce	G 1908	Worcester, Mass.
Assistant Professor of Electrical Engineering, Worcester Polytechnic		
Walter Bowers Pillsbury	G 1894*† (Michigan CF 1903)	Ann Arbor, Mich.
Professor of Psychology, University of Michigan		
George Emil John Pistor	U 1901	New York City
Contracting Engineer, Hay Foundry and Iron Works		
William Mecklenburg Polk	F 1904*†	New York City
Dean of Medical College, Cornell University		

Clyde Potts	A 1911 Consulting Engineer	New York City
George Harold Powell	G 1896* Secretary and Manager, Citrus Protective League of California	Los Angeles, Cal.
William Henry Powell	G 1901 General Superintendent, Bullock Electric Manufacturing Company	Cincinnati, Ohio
David Shepard Pratt	G 1909 Chemist, Bureau of Science	Manila, P. I.
Eugene Henry Preswick	F 1887 Agriculturist	Ithaca, N. Y.
John Walter Prince	U 1899 Vice-President, Freeborn Engineering and Construction Company	Kansas City, Mo.
Charles Smith Prosser	F 1887*† (Ohio F 1900) Professor of Geology, Ohio State University	Columbus, Ohio
Martin John Prucha	G 1911 Graduate Student in Cornell University	Ithaca, N. Y.
William Henry Pyle	G 1908* Instructor in Psychology, University of Missouri	Columbia, Mo.
Robert Winchell Quick (Deceased 1899)	U 1894	
John Adam Raidabaugh	U 1905 Designer, Maryland Steel Company	Sparrows Point, Md.
Rolla Roy Ramsey	G 1901* (Indiana CF 1904) Associate Professor of Physics, Indiana University	Bloomington, Ind.
Harold Alva Rands	U 1901 Assistant Engineer, Portland Railway, Light and Power Company	Portland, Ore.
George Atwater Rankin	U 1907 Chemist, Geophysical Laboratory	Washington, D. C.
Robert Rankin	U 1904 Assistant Manager, Sao Paulo Electric Company	Sao Paulo, Brazil
Arthur Ranum	G 1896* Assistant Professor of Mathematics, Cornell University	Ithaca, N. Y.
Edwin Frederick Rathjen	G 1910 Instructor in Chemistry, Cornell University	Ithaca, N. Y.
Walter Rautenstrauch	G 1904* Professor of Mechanical Engineering, Columbia University	New York City
Burton Justice Ray	G 1908 Instructor in Chemistry, North Carolina College of Agriculture	Raleigh, N. C.
Percy Edward Raymond	U 1902*† Assistant Professor of Paleontology, Harvard University	Cambridge, Mass.
Effie Alberta Read	U 1903 Microanalyst, Bureau of Chemistry, U. S. Department of Agriculture	Washington, D. C.
John Moore Reade	G 1897 Professor of Botany, University of Georgia	Athens, Ga.
Maude Josephine Reamer	U 1896 Teacher of Drawing, Central High School	Buffalo, N. Y.

Donald Reddick	G 1907*	Ithaca, N. Y.
Assistant Professor of Plant Pathology, Cornell University		
Harry Westfall Redfield	U 1900*	Ithaca, N. Y.
Instructor in Chemistry, Cornell University		
Hugh Daniel Reed	G 1900*	Ithaca, N. Y.
Assistant Professor of Zoology, Cornell University		
Raymond Clinton Reed	F 1897*	Newark, Del.
Professor of Bacteriology, Delaware College		
Leopold Reinecke	G 1904	Ottawa, Canada
Assistant, Geological Survey of Canada		
Arthur Eduard Reinke	U 1896	Berlin, Germany
Chief Engineer in Europe, Western Electric Company		
Charles Foster Rhodes	U 1903	Glens Falls, N. Y.
International Paper Company, Bureau of Tests		
Arthur Louis Rice	G 1896*	Chicago, Ill.
Managing Editor, Practical Engineer		
James Edward Rice	U 1890*†	Ithaca, N. Y.
Professor of Poultry Husbandry, Cornell University		
John Lyon Rich	U 1906	Urbana, Ill.
Instructor in Geology, University of Illinois		
Francis Alanson Richmond	U 1898*	Elmira, N. Y.
Professor of Chemistry and Physics, Elmira College		
Arthur William Richter	G 1899	Manitowoc, Wis.
Floyd Karker Richtmyer	U 1904*	Ithaca, N. Y.
Assistant Professor of Physics, Cornell University		
Ross Milton Riegel	U 1904	New York City
Assistant Engineer, Board of Water Supply		
Heinrich Ries	F 1900*†	Ithaca, N. Y.
Professor of Economic Geology, Cornell University		
William Albert Riley	G 1899*†	Ithaca, N. Y.
Assistant Professor of Entomology, Cornell University		
William Hermon Riley	CU 1886	Wilmington, Del.
Gilbert Powers Ritter	U 1897	Washington, D. C.
Lawyer		
Ralph Noyes Robertson	F 1906	Denver, Col.
Power Engineer, American Smelting and Refining Company		
Charles Albert Robinson, Jr	U 1906	New York City
Telephone Engineer, American Telephone and Telegraph Company		
Floyd Lucien Robinson	U 1890	New York City
Architect		
Frank Crawl Robinson	U 1904	Philadelphia, Pa.
Chemist		
Ralph Chapman Rodgers	G 1909*	Ithaca, N. Y.
Instructor in Physics, Cornell University		
Thomas Jacob Rodhouse	G 1905 (Missouri F 1908)	Columbia, Mo.
Assistant Professor of Engineering, University of Missouri		

Ralph Burt Roe	U 1907	Philadelphia, Pa.
Chemist, Atlantic Refining Company		
Clarence Arthur Rogers	F 1910	Ithaca, N. Y.
Assistant Professor of Poultry Husbandry, Cornell University		
Frederick John Rogers	F 1891* (Stanford CF 1902)	Palo Alto, Cal.
Associate Professor of Physics, Leland Stanford Junior University		
John Rogers	F 1907	New York City
Professor of Clinical Surgery, Cornell University Medical College		
Mary Farrand Rogers	U 1896†	Elizabeth, N. J.
(Mrs Wilhelm Miller)		
Malcom Churchill Rorty	U 1896	Edgeworth, Pa.
General Superintendent, Telephone Company		
Harold Ellis Ross	F 1911	Ithaca, N. Y.
Assistant Professor of Agriculture, Cornell University		
Ida Adella Ross	U 1900	Rome, N. Y.
(Mrs J Edwin Clark)		
Mary Jane Ross	U 1898*	Binghamton, N. Y.
Physician		
Ehrick Kensett Rossiter	A 1888†	New York City
Fillebert Roth	F 1900*† (Michigan F 1903)	Ann Arbor,
Professor of Forestry, University of Michigan		[Mich.
William Alphonso Rowe	U 1903	Pittsburgh, Pa.
Manager, American Blower Company of Detroit		
Willard Winfield Rowlee	F 1891*†	Ithaca, N. Y.
Professor of Botany, Cornell University		
Daniel Royse	G 1891	Chicago, Ill.
Editor		
Joseph Heywood Russell	U 1901	Boston, Mass.
Chemist, Marden, Orth and Hastings		
Harris Joseph Ryan	U 1887*† (Stanford F 1905)	Palo Alto, Cal.
Professor of Electrical Engineering, Leland Stanford Junior University		
Walter J Ryan	U 1906	York, Neb.
Engineering Aide, U. S. Government		
Henry Ryon	U 1906	Brooklyn, N. Y.
Sanitary Engineer		
George Holland Sabine	G 1904	Palo Alto, Cal.
Assistant Professor of Philosophy, Leland Stanford Junior University		
Lillian Belle Sage	U 1901	Norwich, N. Y.
Teacher		
Robert Warren Sailor	U 1907	Chicago, Ill.
Salesman, Heywood Brothers and Wakefield Company		
Richard Collier St. John	U 1887	St. Louis, Mo.
Railway Engineer, Missouri Pacific Railroad		
Daniel Elmer Salmon	A 1887*†	Montevideo, Uruguay
Director, Sección Veterinaria, University of Montevideo		
Walter Edward Sanders	U 1903	Trenton, N. J.
Mechanical Engineer		

Edwin Nash Sanderson	CG 1886	New York City
Engineer and Contractor, Sanderson and Porter		
Ezra Dwight Sanderson	U 1898*†	Morgantown, W. Va.
Dean of Agriculture, University of West Virginia		
Warren Bixby Sanford	U 1901	New York City
Electrical Engineer		
Shiro Sano	G 1909	Tokyo, Japan
Professor of Electrical Engineering, Waseda University		
Augustus Valentine Saph	G 1902	San Francisco, Cal.
Civil Engineer with John Leonard		
Erle Hoxsie Sargent	U 1887	Fort Casey, Wash.
Physician		
Samuel J Saunders	G 1889*†	Clinton, N. Y.
Professor of Physics and Astronomy, Hamilton College		
Paul Louis Saurel	G 1891*	New York City
Associate Professor of Mathematics, College of City of New York		
Will Miller Sawdon	F 1906	Ithaca, N. Y.
Assistant Professor of Experimental Engineering, Cornell University		
Ezra Frederick Scattergood	G 1899	Los Angeles, Cal.
Electrical Engineer, Department of Public Service		
James Walter Schade	U 1904	Akron, Ohio
Chemist, Goodrich Rubber Company		
Edward Franklin Schaefer	G 1903	
(Deceased 1908)		
Charles Ashmead Schaeffer	F 1887	
(Deceased 1898)		
Jacob Parsons Schaeffer	G 1908* (Yale F 1911)	New Haven, Conn.
Assistant Professor of Anatomy, Yale University		
Margaret Everitt Schallenberger	G 1899	San Jose, Cal.
William Henry Schideler	G 1910	Ithaca, N. Y.
Max Gustav Schlapp	F 1907	New York City
Lecturer in Pathology, Cornell University Medical College		
Carl George Schluederberg	G 1908	Pittsburgh, Pa.
Electrical Engineer		
Ernest William Schoder	G 1902*	Ithaca, N. Y.
Assistant Professor of Experimental Hydraulics, Cornell University		
William Ross Schoemaker	G 1892	Manistique, Mich.
Baptist Clergyman		
Daniel Ransom Scholes	U 1904	Chicago, Ill.
Chief Engineer, Aermotor Company		
Wandell B Secor	U 1899	Trenton, Junction, N. J.
Teacher		
George Daniel Shafer	G 1907 (Stanford G 1906)	East Lansing,
Research Entomologist, Michigan Agricultural College [Mich.		
Philip Anderson Shaffer	F 1910* (Washington F 1911)	St. Louis, Mo.
Professor of Biological Chemistry, Washington University		

Ira Alexander Shaler (Deceased 1902)	G 1888	
Robert Louis Shape	U 1895 Architect	New York City
Clayton Halsey Sharp	G 1895* Test Officer, Electric Testing Laboratories	New York City
Stella Emily Sharp	G 1898	Seneca Falls, N. Y.
Francis Robert Sharpe Assistant Professor of Mathematics, Cornell University	G 1906	Ithaca, N. Y.
William Francis Shaw	U 1904	Hondo, Tex.
John Sanford Shearer Professor of Physics, Cornell University	U 1893*	Ithaca, N. Y.
Janet May Sheldon (Mrs Theodore Frelinghuysen Collier)	U 1894	Williamstown, Mass.
Pearl Gertrude Sheldon	U 1908 Assistant in Paleontology, Cornell University	Ithaca, N. Y.
Ralph Edward Sheldon	U 1905* (Chicago G 1907) Assistant Professor in Anatomy, University of Pittsburgh	Pittsburgh, Pa.
George Defrees Shepardson	G 1889*† (Minnesota CF 1896) Professor of Electrical Engineering, University of Minnesota [Minn.]	Minneapolis
Ernest Stanley Shepherd Assistant in Geophysical Laboratory, Carnegie Institution	U 1902*†	Washington, D. C.
Franklin Sherman, Jr Entomologist, State Department of Agriculture	U 1900*	Raleigh, N. C.
Frederick Elias Sherman (Deceased)	U 1907	
Frank James Short (Deceased 1909)	G 1907	
Richmond Harold Shreve	G 1903 Architect	New York City
Surendra Nath Sii Professor at Bengal College of Agriculture	G 1907	Calcutta, India
Frederick William Simonds Professor of Geology, University of Texas	F 1887*†	Austin, Tex.
Charles Baird Simpson (Deceased 1907)	G 1900	
Howard Sard Simpson Vice-President and Treasurer, G. Broes Van Dort Company	U 1896	Chicago, Ill.
Sutherland Simpson	F 1909* Professor of Physiology, Cornell University	Ithaca, N. Y.
Charles Herschel Sisam Assistant Professor of Mathematics, University of Illinois	G 1904* (Illinois F 1906)	Urbana, Ill.
Mary Florence Wells Slater	U 1900 Teacher	Flushing, L. I., N. Y.
Mark Vernon Slingerland (Deceased 1909)	U 1891*†	

William Griffith Sloan	U 1899	New York City
Chief Engineer, MacArthur Brothers Company		
Albert William Smith	F 1886*†	Ithaca, N. Y.
Director of Sibley College, Cornell University		
Arma Anna Smith	G 1896	West Camden, N. Y.
Charles Edward Smith	G 1902*	Golden, Col.
Assistant Professor of Geology, Colorado School of Mines		
Harold Babbitt Smith	U 1891*† (Worcester CF 1908)	Worcester,
Professor of Electrical Engineering, Worcester Polytechnic Institute [Mass.		
Harold Whitmore Smith	U 1908	Adelaide, South Australia
Harry Ezra Smith	CU 1886	College Station, Tex.
Assistant Professor of Mechanical Engineering, Texas Agricultural College		
Lucy Wright Smith	G 1911	Ithaca, N. Y.
Assistant in Biology, Cornell University		
Philip Edward Smith	G 1910	Ithaca, N. Y.
Instructor in Embryology, Cornell University		
Ruby Green Bell Smith	F 1905 (Stanford G 1904)	Ithaca, N. Y.
(Mrs Albert William Smith)		
Theobald Smith	A 1887*†	Boston, Mass.
Director, Rockefeller Institute for Medical Research		
Earl Miner Sneckenberger	U 1905	Billings, Mont.
Secretary, The Gerharz Engineering Company		
Benjamin Warner Snow	A 1888* (Wisconsin CF 1907)	Madison, Wis.
Professor of Physics, University of Wisconsin		
Julia Warner Snow	U 1888*	Northampton, Mass.
Associate Professor of Botany, Smith College		
Ralph Cuthbert Snowdon	G 1905*	Niagara Falls, N. Y.
Research Chemist, Hooker Electrochemical Company		
Virgil Snyder	G 1892*	Ithaca, N. Y.
Professor of Mathematics, Cornell University		
Albert Alexander Somerville	G 1910	Ithaca, N. Y.
Instructor in Physics, Cornell University		
Edward Kirke Soper	G 1909	Minneapolis, Minn.
Instructor in Economic Geology, University of Minnesota		
Platon Vladimlr Soukatschoff	U 1901	Petrovsky, Kharcov, Russia
Engineer		
Charles Stockman Spooner	G 1911	Atlanta, Ga.
Assistant State Entomologist		
Carrie Ranson Squire	G 1901*	Superior, Wis.
(Mrs William Nelson Squire)		
Principal of Training Department, State Normal School		
Albert Stamford	G 1900	Norfolk, W. Va.
Superintendent, United States Wood Preserving Company		
Numan Reid Stansel	G 1902	Schenectady, N. Y.
Commercial Engineer, General Electric Company		
Eunice Stebbins	U 1897	Omaha, Neb.
Teacher, High School		

- John Moore Stedman U 1888*† (Missouri CF 1905) Washington,
Office of Experiment Stations, U. S. Department of Agriculture [D. C.]
- Henry Freeman Steeker F 1901 State College, Pa.
Associate Professor of Mathematics, Pennsylvania State College
- Henry John Steuber U 1898 East Orange, N. J.
Chemist
- Herman Campbell Stevens G 1903* (Washington CF 1907) Seattle,
Associate Professor of Psychology, University of Washington [Wash.]
- Louisa Stone Stevenson G 1911 Wellesley, Mass.
Stone Hall, Wellesley College
- George Walter Stewart F 1900*† (Iowa F 1910) Iowa City, Ia.
Professor of Physics, State University of Iowa
- John Pogue Stewart G 1911 State College, Pa.
Experimental Pomologist, Pennsylvania State College
- Oscar Milton Stewart G 1895*† (Missouri CF 1905) Columbia, Mo.
Professor of Physics, University of Missouri
- Vern B Stewart G 1911 Ithaca, N. Y.
Investigator, Cornell University
- William Alonzo Stocking, Jr F 1908* Ithaca, N. Y.
Professor of Dairy Industry, Cornell University
- Bertha Stoneman U 1894 Wellington, Cape Colony
Professor of Botany, Huguenot College
- Harry Frost Stratton U 1903 Cleveland, Ohio
Sales Manager, Electric Controller and Manufacturing Company
- Cora Strong U 1903 Greensboro, N. C.
Associate in Mathematics, State Normal College
- Anna Clegg Stryke G 1909 Ithaca, N. Y.
Artist and Assistant in Entomology, Cornell University
- Arnold Valentine Stubenrauch G 1901 Washington, D. C.
Field Investigations, Bureau of Plant Industry
- Mervin Tubman Sudler F 1903* (Kansas F 1904) Lawrence, Kan.
Associate Dean of Medical School, University of Kansas
- Ellen Theresa Sullivan U 1901 La Grange, Ill.
Teacher of Botany, Lyons Township High School
- Henry Elijah Summers A 1887*† Ames, Ia.
Professor of Zoology and State Entomologist, Iowa State College
- James Malcomb Swaine G 1906* Ottawa, Canada
Assistant Entomologist, Division of Entomology
- Frank Houston Swift G 1911 Cresswell, Ore.
- George Walter Tailby, Jr U 1906 Ithaca, N. Y.
Instructor in Animal Husbandry, Cornell University
- Jesse Moore Talmadge U 1897 New York City
Inspector and Chemist, Quartermaster's Department U. S. Army
- John Henry Tanner U 1891*† Ithaca, N. Y.
Professor of Mathematics, Cornell University
- Ralph Stockman Tarr F 1892*†
(Deceased 1912)

Robert Wilson Tassle	U 1909	Adelaide, South Australia
Alfred Ernest Taylor	G 1896 Chemist, U. S. Government	New York City
Hawley Otis Taylor	U 1909 Instructor in Physics, Cornell University	Ithaca, N. Y.
Robert Cromwell Taylor	U 1899 Civil Engineer, Carnegie Steel Company	Pittsburgh, Pa.
Walter Jennings Taylor	U 1906 Assistant State Veterinarian	Albany, N. Y.
John Edgar Teeple	U 1899* Consulting Chemist and Chemical Engineer	New York City
George Louis Terrasse	U 1896 Superintendent, New York Tanning Extract Company	New York City
Horace Holden Thayer, Jr	U 1900 Naval Architect	Wilmington, Del.
Alfred Henry Thiessen	U 1898 Section Director, U. S. Weather Bureau	Salt Lake City, Utah
Charles Thom	G 1903* Cheese Expert (Mycologist) U. S. Department of Agriculture	Storrs, Conn.
Carl Clapp Thomas	G 1895*† (Wisconsin F 1908) Professor in Steam and Gas Engineering, University of Wisconsin	Madison, Wis.
Mason Blanchard Thomas	U 1890* Dean of Faculty and Professor of Botany, Wabash College	Crawfordsville, Ind.
Melvorn Francis Thomas	G 1908 Instructor in Experimental Engineering, Cornell University	Ithaca, N. Y.
George Ellsworth Thompson	G 1911 Assistant Instructor in Physics, Cornell University	Ithaca, N. Y.
Milton Ellsworth Thompson	G 1891	Ridgway, Pa.
William Robin Thompson	G 1911 Expert, Bureau of Entomology, U. S. Department of Agriculture	Washington, D. C.
William Crooks Thro	U 1900* Assistant Professor of Pathology, Cornell Medical School	New York City
Robert Henry Thurston (Deceased 1903)	F 1887†	
Arthur Henry Timmerman	G 1893 Chief Engineer, Wagner Electric Manufacturing Company	St. Louis, Mo.
Charles Edward Timmerman	G 1893 Teacher of Physics, DeWitt Clinton High School	New York City
Martin Buel Tinker	F 1904 Physician	Ithaca, N. Y.
Edward Bradford Titchener	F 1894*† Professor of Psychology, Cornell University	Ithaca, N. Y.
William Boardman Tobey (Deceased 1896)	U 1890	
John William Todd	U 1906 Assistant Purchasing Agent, Crucible Steel Company of America	Pittsburgh, Pa.

ALPHA CHAPTER

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Leona Estelle Todd	U 1903	Poughkeepsie, N. Y.
Physician, Hudson River State Hospital		
Ernest Tompkins	U 1898	Norristown, Pa.
Salesman, Wildman Manufacturing Company		
Yau Hang Tong	G 1908	Canton, China
William Martin Torrance	A 1907	New York City
Consulting Engineer		
Ashton Steven Tourison, Jr	U 1901	Mt. Airy, Philadelphia, Pa.
Sedgwick Farms Company		
Anna B Townsend	U 1903	New York City
(Mrs Charles Walter Howard)		
William Trelease	A 1887*†	St. Louis, Mo.
Director, Missouri Botanical Gardens, Professor of Botany, Washington University		
Charles John Triggerson	G 1910	Toronto, Canada
Alonzo George Trumbull	U 1899	Cleveland, Ohio
Mechanical Superintendent, Erie Railroad Company		
Orin Tugman	G 1907* (Indiana G 1906)	New York City
Engineer, Western Electric Company		
Frederick Eugene Turneaure	U 1889*† (Wisconsin CF 1907)	Madison, Wis.
Dean of College of Engineering, University of Wisconsin		
Ebenezer Tousey Turner	G 1896	Ithaca, N. Y.
Vice-President, Morse Chain Company		
John William Turrentine	G 1908*	Washington, D. C.
Scientist, Bureau of Soils		
Dennie Hammond Udall	U 1901	Ithaca, N. Y.
Professor of Veterinary Medicine, Cornell University		
George Burr Upton	U 1904	Ithaca, N. Y.
Assistant Professor of Experimental Engineering, Cornell University		
James M Van Hook	G 1902 (Indiana F 1906)	Bloomington, Ind.
Assistant Professor of Botany, Indiana University		
Carlos Whitney Van Law	U 1896	Pachuca, Hidalgo, Mex.
General Manager, Compania de Real del Monte y Pachuca		
Ernest Allen Van Vleck	U 1897	New York City
Frank Van Vleck	CF 1886	Baltimore, Md.
Baltimore Copper Smelting and Rolling Company		
Samuel Matthews Vanclain	U 1902	Rosemont, Pa.
John Arthur Veazey	G 1910	
(Deceased 1911)		
Lucius Otto Vesper	U 1903	Connellsville, Pa.
Electrical Engineer		
Thomas McElderry Vickers	U 1890	Syracuse, N. Y.
Manager, Manufacturing Company		
John Albert Vogleson	U 1900	Philadelphia, Pa.
Chief, Bureau of Health of Philadelphia		

- Oscar Diedrich von Engeln U 1908 Ithaca, N. Y.
Instructor in Physical Geography, Cornell University
- Hermann von Schrenk U 1893*† St. Louis, Mo.
Consulting Pathologist, Missouri Botanical Garden
- Joel Edward Wadsworth U 1890 Yonkers, N. Y.
Resident Engineer, American Bridge Company
- Chauncey William Waggoner G 1905* Morgantown, W. Va.
Professor of Physics, University of West Virginia
- Edward Andrew Wagner U 1898 Fort Wayne, Ind.
Transformer Engineer, Fort Wayne Electric Works
- Walter Calvin Wagner G 1911 Seattle, Wash.
Instructor in Electrical Engineering, University of Washington
- John Cassan Wait A 1888† New York City
Lawyer
- George Hicks Walbridge U 1890 Colorado Springs, Col.
General Manager, Central Colorado Power Company
- Emory Lafayette Walker U 1902 Berlin, Wis.
Eastern Manager, Pacific Coast Condensed Milk Company
- Ernest Walker U 1897* Fayetteville, Ark.
Professor of Horticulture, University of Arkansas
- Perley F Walker G 1901* (Kansas F 1905) Lawrence, Kan.
Professor of Mechanical Engineering, University of Kansas
- Errett Wallace G 1909 Washington, D. C.
Pathologist, U. S. Bureau of Plant Industry
- William Lewis Wallace, Jr G 1907 Manitowoc, Wis.
Chief Engineer, Manitowoc Engineering Works Company
- Albert Walton U 1902 Dorchester, Mass.
Commercial Engineer
- Lee Barker Walton G 1902* Gambier, Ohio
Professor of Biology, Kenyon College
- Archibald Robinson Ward U 1898* Manila, P. I.
Dean of College of Veterinarian Science, University of the Philippines
- Mary Margaretta Wardwell U 1888 Buffalo, N. Y.
Head of Mathematics, Central High School
- George Frederick Warren G 1904* Ithaca, N. Y.
Professor of Farm Management, Cornell University
- Mary (Whitson) Warren U 1905 Ithaca, N. Y.
(Mrs George Frederick Warren)
- Frank Sherman Washburn A 1883 Nashville, Tenn.
President, American Cyanamid Company
- Margaret Floy Washburn F 1902*† Poughkeepsie, N. Y.
Professor of Psychology, Vassar College
- Floyd Rowe Watson G 1901* (Illinois CF 1903) Urbana, Ill.
Assistant Professor of Physics, University of Illinois
- Thomas Leonard Watson G 1897*† Charlottesville, Va.
Professor of Geology, University of Virginia

Cassius Way	U 1907	Howard, Ill.
Veterinarian, Borden's Condensed Milk Company		
Alfred Cleveland Weed	U 1905	Washington, D. C.
Aid in Biology, U. S. National Museum		
Edgar Calvert Welborn	U 1903	Milwaukee, Wis.
Assistant Treasurer, Allis-Chalmers Company		
Stuart Weller	U 1894*† (Chicago CF 1903)	Chicago, Ill.
Associate Professor of Geology, University of Chicago		
Thomas Whitney Benson Welsh	G 1909	Ithaca, N. Y.
Instructor in Chemistry, Cornell University		
Erastus Lovette West	U 1899	Boston, Mass.
General Manager, Connecticut River Power Company		
George Hutton West	U 1901	Reber, N. Y.
Breeder of Holstein Cattle		
John Van Etten Westfall	G 1899* (Iowa CF 1900)	New York City
Superintendent of Bureau of Statistics, Equitable Life Assurance Society		
Herbert Hice Whetzel	G 1903*	Ithaca, N. Y.
Professor of Plant Pathology, Cornell University		
Guy Montrose Whipple	F 1900*	Ithaca, N. Y.
Assistant Professor of Education, Cornell University		
Ray Hughes Whitbeck	U 1901	Madison, Wis.
Associate Professor of Physiography and Geography		
Gershom Franklin White	G 1905*	Washington, D. C.
Expert Bacteriologist, U. S. Department of Agriculture		
Gorrell Robert White	U 1905	Ithaca, N. Y.
Instructor in Chemistry, Cornell University		
James Gilbert White	A 1888†	New York City
President, J. G. White Construction Company		
Paul J White	G 1907	Pullman, Wash.
Professor of Agronomy, State College of Washington		
Ward Benjamin White	G 1908	Ithaca, N. Y.
State Chemist, State Department of Agriculture		
Walter Porter White	G 1903*†	Washington, D. C.
Physicist, Geophysical Laboratory		
Francis Luther Whitney	U 1906	Akron, Ohio
Professor, Buchtel College		
Mary Whitson	U 1905	Ithaca, N. Y.
(Mrs George Frederick Warren)		
Theodore Whittelsey	F 1899*	Mishawaka, Ind.
Chief Chemist, Rubber Regenerating Company		
Frances Gertrude Wick	G 1906*	Poughkeepsie, N. Y.
Instructor in Physics, Vassar College		
Maude (Cipperly) Wiegand	U 1904	Wellesley, Mass.
(Mrs Karl McKay Wiegand) Instructor in Botany, Wellesley College		
Karl McKay Wiegand	U 1894*	Wellesley, Mass.
Associate Professor of Botany, Wellesley College		

David Truxton Wilber	G 1911	Ithaca, N. Y.
Graduate Student in Geology, Cornell University		
J Ralph Wilbur	U 1897	Chicago, Ill.
Fire Insurance		
Perley Smith Willcox	U 1897	Rochester, N. Y.
Manager		
Edward Lyman Wilder	U 1902	Rochester, N. Y.
Electrical Engineer, Rochester Railway and Light Company		
Herbert Sedgwick Wilgus	U 1901	Angelica, N. Y.
Engineer, Pittsburgh, Shawmut and Northern Railway		
Stephen Franklin Willard	U 1909	Western Springs, Ill.
Vaughan's Seed Store		
Mary Alice Willcox	G 1892†	Wellesley, Mass.
Professor Emeritus of Zoology, Wellesley College		
Alan Gillespie Williams	U 1903	Altoona, Pa.
Engineer		
Gardner Stewart Williams	F 1901*† (Michigan F 1903)	Ann Arbor, Mich.
Consulting Engineer		
Harvey Daniel Williams	F 1894	New York City
Consulting Engineer		
Henry Shaler Williams	CF 1886*† (Yale CF 1895)	Ithaca, N. Y.
Professor of Geology, Cornell University		
Roger Butler Williams, Jr	U 1901	Ithaca, N. Y.
Receiver, New York, Auburn and Lansing, and Ithaca Street Railroad		
Walter Long Williams	F 1897*†	Ithaca, N. Y.
Professor of Veterinary Surgery, Cornell University		
Robert Baird Williamson	U 1893	Milwaukee, Wis.
Electrical Engineer, Allis-Chalmers Company		
John Gordon Wills	U 1906	Albany, N. Y.
Chief Veterinarian, N. Y. Department of Agriculture		
Arthur John Wilson	G 1911	Galesburg, Ill.
Professor of Chemistry, Lombard College		
Charles Scoon Wilson	G 1905*	Ithaca, N. Y.
Professor of Pomology, Cornell University		
David Wilson	U 1905	Amsterdam, N. Y.
Physician		
John Crosier Wilson	U 1906	Milwaukee, Wis.
Engineer, The Cutler-Hammer Manufacturing Company		
Margaret Boynton Windsor	U 1895	Urbana, Ill.
(Mrs Phineas Lawrence Windsor)		
Charles Benjamin Wing	CG 1887*† (Stanford CF 1902)	Palo, Alto, Cal.
Professor of Engineering, Leland Stanford Junior University		
Henry Hiram Wing	F 1888*†	Ithaca, N. Y.
Professor of Animal Husbandry, Cornell University		
Florence MacLean Winger	G 1901*	Urbana, Ill.
(Mrs William Chandler Bagley)		

Rhett Youmans Winters	G 1911	Ithaca, N. Y.
Instructor in Agriculture, Cornell University		
William Alphonso Withers	G 1890*†	Raleigh, N. C.
Professor of Chemistry, College of Agriculture and Mechanic Arts		
Russell Sage Woglum	U 1904*	Washington, D. C.
Bureau of Entomology, U. S. Department Agriculture		
Peter Irving Wold	G 1908	Peking, China
Professor of Physics, Chin Hua College		
Charles George Lewis Wolf	F 1907*†	New York City
Assistant Professor in Chemistry, Cornell University Medical College		
Eugene Harper Wood	F 1907	Ithaca, N. Y.
Professor of Machine Design, Cornell University		
Harrison Haskell Wood	U 1892	Pittsburgh, Pa.
Manager, Broom Sewing Machine Company		
Herbert Spencer Wood	U 1902	Washington, D. C.
Accountant, Commission on Economy and Efficiency		
Samuel Hamilton Woods	U 1906	Hoboken, N. J.
Instructor, Stevens Institute of Technology		
Albert Hazen Wright	U 1904*	Ithaca, N. Y.
Instructor in Zoology, Cornell University		
Floyd Robins Wright	G 1899	Ithaca, N. Y.
Physician		
Richard Avery Wright	U 1905	Brooklyn, N. Y.
Engineer		
Alanson Phelps Wyman	U 1897	Minneapolis, Minn.
Landscape Architect		
Shiro Yamazaki	U 1902	Yamato, Japan
Consulting Engineer		
John Mason Young	U 1902	Honolulu, H. I.
Professor of Engineering, College of Hawaii		
John Wesley Young	G 1901* (Northwestern CF 1906)	Hanover,
Head of Department of Mathematics, Dartmouth College	[N. H.]	
Carl Abell Zeller	G 1909	Pittsburgh, Pa.
Instructor in Physics, High School		

BETA CHAPTER

STEVENS INSTITUTE OF TECHNOLOGY, HOBOKEN, NEW JERSEY

Charter Granted May, 1887

Defunct

HISTORICAL SKETCH

The Chapter was organized with four members of the class of 1884 and one instructor; and only one initiation occurred, one member being elected from the class of 1887. The Chapter existed only during the spring months of the latter year and upon the graduation of this one member, went out of existence.

CHARTER MEMBERS

William Oliver Barnes	Benjamin F Hart
William Henry Bristol	Charles W Thomas
	Benjamin J Tucker

MEMBERSHIP ROLL

William Oliver Barnes	C 1887	Fitchburg, Mass.
Mechanical Engineer, Ivers-Johnson Arms and Cycle Works		
William Henry Bristol	C 1887*†	Waterbury, Conn.
President, The Bristol Company		
Benjamin F Hart	C 1887	New York City
B. F. Hart Jr. and Company		
Charles W Thomas	C 1887	New York City
Mechanical Engineering Department, Columbia University		
Burton Morss Tremper	U 1887	Kingston, N. Y.
Merchant		
Benjamin J Tucker	C 1887	New York City
Consulting Mechanical Engineer		

DELTA CHAPTER

RUTGERS COLLEGE, NEW BRUNSWICK, NEW JERSEY

Charter Granted February, 1887

Defunct

HISTORICAL SKETCH

The exact date of the establishment of the Chapter at Rutgers College is unknown. The five charter members associated with themselves four members of the faculty and four students. The Chapter had a very brief existence and the officers whose names are printed in the earliest record of Sigma Xi seem never to have performed the functions of their positions. Diligent search has brought to light only a manuscript copy of the Constitution and By-Laws of Sigma Xi, filed with material left at the College by departing members of various organizations. Phi Beta Kappa was already firmly established at Rutgers and in the opinion of faculty members the scientific department was too small to support a second organization.

CHARTER MEMBERS

Thurston Walker Challen	Harry Atwater Smith
D T Marshall	Burton Morss Tremper
Isaac Lewis Winckler	

OFFICERS FOR 1887-1888

President.....	FRANCIS CUYLER VAN DYCK
Secretary.....	WILLIAM BISHOP TOMPKINS

MEMBERSHIP ROLL

Edward Mooee Alden	U 1887	Millers Falls, Mass.
Peter Townsend Austen (Deceased)	F 1887†	
Edward A Bowser (Deceased)	F 1887†	
Thurston Walker Challen (Deceased)	C 1887	
Harry Joseph March	U 1887	Buffalo, N. Y.
Assistant Engineer, Department of Public Works		
D T Marshall	C 1887	Hollis, L. I., N. Y.
Physician		

Harry Atwater Smith (Deceased)	C 1887	
William Bishop Tompkins (Deceased)	U 1887	
Burton Morss Tremper	C 1887 Merchant	Kingston, N. Y.
Francis Cuyler Van Dyck Dean, Professor of Physics and Experimental Mechanics, Rutgers College	F 1887*†	New Brunswick, N. J.
Cornelius Clarkson Vermuele	U 1887† U. S. Geological Survey	Trenton, N. J.
Francis Augustus Welber (Deceased)	F 1887	
Isaac Lewis Winckler Teacher of Mathematics, Central High School	C 1887	Cleveland, Ohio

RENSSELAER CHAPTER

RENSSELAER POLYTECHNIC INSTITUTE, TROY, NEW YORK

Charter Date Unknown

Chapter Installed May 6, 1887

HISTORICAL SKETCH

The Rensselaer Chapter of the Society of the Sigma Xi, originally designated the Zeta Chapter, was established May 6, 1887, at the Rensselaer Polytechnic Institute, Troy, N. Y. The charter membership consisted of seven undergraduates from the senior and junior classes.

This Chapter having been established only six months after the founding of the Society, the installation undoubtedly lacked the formality and importance which attach to the ceremony of the present day; in fact, the Chapter has no account of the installation exercises. The earliest record now in its possession pertains to a meeting held on June 9, 1887, at which time three members of the faculty were elected to membership.

For fifteen years the Chapter was composed of from eight to ten faculty members and such undergraduate students as were deemed worthy of election. This election, usually occurring in April, did not enable the new members to derive much direct benefit from association with the other members of the Society, but to be numbered among the few selected was considered by the student body an honor earnestly to be sought. As there was but one course of study at the Institute, and that arranged to fit the needs of the civil engineer, the selection of members has been based on the promise given of future success in the investigations which are directly connected with the profession of engineering, and the measure of success attained by the graduate members of the Chapter would indicate that their selection had been wisely made.

The phenomenal growth of the Rensselaer Polytechnic Institute during the past seven years—the student attendance having increased from about two hundred to over six hundred—and the establishment in the year 1908 of the new courses of Mechanical and Electrical Engineering have infused new life into the Chapter; the faculty membership has more than doubled and there has been a somewhat similar increase in the student membership. In consequence of these recent important additions to the courses and the superior facilities for study now offered the student in these departments, we look forward to a marked increase in the activity of our Chapter, a wider field of work, and a larger association of resident and undergraduate students who are interested in the investigations which lead to the practical application of science to the continued development of the country's industries.

E. F. C.

OFFICERS FOR 1911-12

President.....	EDWARD RICHARDS CARY
Vice-President.....	ALBERT GUSTAVE WALTER
Recording Secretary.....	CHARLES HENRY ANDROS
Corresponding Secretary.....	EDWARD FENEMORE CHILLMAN
Treasurer.....	EDWARD FENEMORE CHILLMAN
Councilor.....	CHARLES WINTHROP CROCKETT

MEMBERSHIP ROLL

Walter Russell Abbott	U 1909	Waterford, N. Y.
Leveler, New York State Barge Canal		
William Henry Adey	U 1895	Albany, N. Y.
Assistant Engineer, Delaware and Hudson Company		
Hugh McVean Anderson	F 1898	Irondequoit, N. Y.
Civil Engineer		
Charles Henry Andros	U 1907	Troy, N. Y.
Assistant in Descriptive Geometry, Rensselaer Polytechnic Institute		
Hiley Newton Armer	U 1909	Albany, N. Y.
Rodman, New York State Highway Commission		
Emil Asseln	U 1899	Steelton, Pa.
Engineer, Pennsylvania Steel Company		
Jay Arthur Auringer	U 1906	Brooklyn, N. Y.
Draftsman, Empire Bridge Company		
Charles David Babcock	U 1909	Troy, N. Y.
Assistant in Mathematics and Surveying, Rensselaer Polytechnic Institute		
Walter Peter Backes	U 1911	Memphis, Tenn.
Engineer in Contracting Department, Virginia Bridge and Iron Company		
Edward Christian Henry Bantel	U 1897	Austin, Tex.
Associate Professor of Civil Engineering, University of Texas		
Charles Whitney Tillinghast Barker	U 1903	Philadelphia, Pa.
President, Field, Barker and Underwood, Inc., Engineers and Contractors		
Frank Edwin Barnes	U 1898	New York City
Engineer, A. E. Stephens Company		
Charles Ridgely Barnett, Jr	U 1903	Baltimore, Md.
Member of Firm, Hopkins-Barnett Company, Contracting Engineers		
Charles Abercrombie Dunbar Bayley	U 1900	New York City
Supervisor, Construction Department, J. G. White and Company		
Frederick Armour Beardsley	U 1911	New York City
Assistant Engineer, Viele, Blackwell and Buch, Engineers		
Walter Douglas Beardsley	U 1911	New York City
Assistant Engineer, Viele, Blackwell and Buch, Engineers		
Donald Neil Becker	U 1908	Chicago, Ill.
Designer, Engineering Department, Chicago, Milwaukee and St. Paul Railway		
Paul Beer	U 1900	Des Moines, Ia.
Manager, Barber Asphalt Paving Company		
Harold Smith Beers	U 1907	Niagara Falls, N. Y.
Assistant Engineer, Ontario Power Company		

George Alfred Bell, Jr	U 1900	Marion, Ind.
James Clark Bell	U 1906	Schenectady, N. Y.
Assistant Engineer, New York State Barge Canal		
Franklyn Edward Belmont	U 1907	New York City
Structural Draftsman, Public Service Commission		
William Joseph Bergen	U 1897	Cleveland, Ohio
First Assistant to Chief Engineer, New York, Chicago and St. Louis Railway		
James Wartelle Billingsley	U 1902	New Orleans, La.
Manager, New Orleans Office, The Fred A. Jones Company, Engineers		
Edward Freyling Black	U 1904	Foochow, China
Dean, Department of Engineering, Anglo-Chinese College		
Frank Joseph Blair, Jr	U 1907	Society Hills, S. C.
Resident Manager, The Ferguson Contracting Company		
Carl Augustus Bostrom	U 1901	Washington, D. C.
Assistant Civil Engineer, United States Navy		
Theodore James Bradley	U 1904	Albany, N. Y.
Professor of Mathematics, Albany Academy		
George Chester Britton	U 1907	Rochester, N. Y.
Draftsman, State Engineer's Department.		
Harry Baldwin Brown	U 1911	Wilton, N. Y.
Assistant Engineer on Construction, Metropolitan Life Insurance Company		
Nimrod Washington Long Brown	U 1892	Thomasville, Ala.
Managing Proprietor, Thomasville Mill and Storage Company		
Robert King Brown, Jr	CU 1887	Salt Lake City, Utah
Engineer M. of W., San Pedro, Los Angeles and Salt Lake City Railroad		
Elmer James Bucknell	U 1892	
(Deceased 1895)		
Thomas Edward Butterfield	U 1897	Philadelphia, Pa.
Chief Engineer, Otto Gas Engine Works		
Charles Dow Calkins	U 1909	Troy, N. Y.
Assistant in Mathematics and Surveying, Rensselaer Polytechnic Institute		
Alejo Augustin Carrèno	U 1903	Carrèno, Cuba
General Manager, Covadonga Sugar Manufacturing Company		
Edward Fairbank Carter	U 1907	Victoria Harbor, Canada
Engineer, Metcalf Engineering Company of Chicago		
Edward Richards Cary	F 1905	Troy, N. Y.
Professor of Geodesy and Road Engineering, Rensselaer Polytechnic Institute		
Ramón Ramos Casellas	U 1905	Arecibo, Porto Rico
City Engineer		
Dan Woleaver Chamberlin	U 1907	Syracuse, N. Y.
Assistant Engineer, New York State Highway Commission		
Frank Taylor Chambers	U 1892	Norfolk, Va.
Civil Engineer, United States Navy Yard		
Ralph Hamilton Chambers	U 1892	New York City
With The Foundation Company		
Eduardo Justo Chibas	U 1888	Santiago de Cuba, Cuba
General Engineering Practice.		

- Edward Fenemore Chillman U 1888 Troy, N. Y.
Associate Professor of Descriptive Geometry, Rensselaer Polytechnic
- Clarence Lee Clark U 1911 Troy, N. Y.
Secretary, Rensselaer Union Club
- Elwyn Maxson Clark U 1904 Troy, N. Y.
Assistant in Mathematics and Surveying, Rensselaer Polytechnic Institute
- John Andrew Clark U 1887 Wilmington, Del.
Civil Engineer
- LeRoy Walter Clark U 1906 Troy, N. Y.
Assistant in Rational and Technical Mechanics, Rensselaer Polytechnic
- Hays Hutchinson Clemens U 1907 Erie, Pa.
Factory Engineer, Hays Manufacturing Company
- Sanford Lockwood Cluett U 1898 Hoosick Falls, N. Y.
Vice-President and Secretary, W. A. Wood Company
- Archie Lyman Colby U 1887 Walkerville, Ont.
Manager of Construction, Canadian Bridge Company, Ltd.
- Allan DeWitt Colvin U 1906 Hartford, Conn.
Assistant to Manager, Hartford Electric Light Company
- Charles Irving Colyer U 1899 New York City
Superintendent, The Guarantee Construction Company
- James Monroe Cook, Jr U 1898 Johnstown, Pa.
Assistant Superintendent, Mining Department, Cambria Steel Company
- Burgis Greenacre Coy U 1904 Fort Collins, Col.
Resident Engineer, Laramie-Poudre Irrigation Company
- David Cushman Coyle U 1910 Phoenixville, Pa.
Designer, Phoenix Bridge Company
- Charles Winthrop Crockett F 1889* Troy, N. Y.
Professor of Mathematics and Astronomy, Rensselaer Polytechnic Institute
- Samuel Brice Curfman U 1893
(Deceased 1909)
- Oscar Frederick Dalstrom U 1901 Chicago, Ill.
Bridge Department, Chicago and Northwestern Railway
- Reuben Davis U 1903 New York City
With The Foundation Company
- Harry Johnson Deutschbein U 1903 Albany, N. Y.
Superintendent of Water Works
- John William Doty U 1902 Troy, N. Y.
Chief Engineer, The Foundation Company
- Walter Louis DuMoulin U 1908 Morenci, Ariz.
Superintendent, The Morenci Water Company
- William Easby, Jr U 1890 (Pennsylvania F 1900) Philadelphia, Pa.
Professor of Municipal Engineering, University of Pennsylvania
- George Ezra Ellis U 1892 Kansas City, Mo.
Signal Engineer, Kansas City Terminal Railway
- William Chester Emigh U 1909 Purling, N. Y.
Consulting Engineer

Myron Edward Evans (Deceased 1907)	U 1895	
Elmer Selah Farwell	U 1891 Consulting Engineer	Kansas City, Mo.
Harvey Feldmeier	U 1892 Mechanical Engineer, D. H. Burrell and Company	Little Falls, N. Y.
Alan McPherson Ferebee	U 1904 Resident Engineer, Sula Island Bridge	New Westminster, B. C.
Edwin Stanton Fickes	U 1893 Chief Engineer and Purchasing Agent, Aluminum Company of America	Pittsburgh, Pa.
Walter George Filer	U 1890 General Manager, Twin Falls Land and Water Company	Salt Lake City, Utah
Frederick William Firth (Deceased 1905)	U 1902	
Joseph Firth	U 1901 City Engineer	Charlotte, N. C.
Burtner Fleeeger	U 1910 Engineer, Pittsburgh Steel Foundry Company	Pittsburgh, Pa.
Ernest Gray Freeman (Deceased 1900)	U 1888	
Robert Samuel Furber (Deceased 1911)	U 1909	
Howard Tompkins Gardenier	U 1907 Secretary and Treasurer, The B. F. Brown Gas Engine Company	Syracuse, N. Y.
Leslie Holmes Garlinghouse	U 1910 Draftsman, American Bridge Company	Ambridge, Pa.
Arthur Leon Giblin (Deceased 1894)	U 1891	
Arthur Maurice Greene, Jr	F 1908† (Pennsylvania F 1900) Professor of Mechanical Engineering, Rensselaer Polytechnic Institute	Troy, N. Y.
Vernon Hill Gridley (Deceased 1896)	U 1893	
George Swetland Groesbeck	U 1888 Consulting Engineer, New York, Westchester and Boston Railway	New York City
Edward Joseph Gugerty	U 1899 Resident Engineer, Lederle and Provost	Middletown, Conn.
James Dickey Hailman Retired	CU 1887	Pittsburgh, Pa.
Edward Parmelee Hamilton	U 1907 Assistant Engineer, Power Construction Company	Shelburne Falls, Mass.
Shortridge Hardesty	U 1908 Draftsman, Waddell and Harrington, Engineers	Kansas City, Mo.
Norman Gladding Hardy	U 1910 Testing Engineer, Mechanical Engineering Department, C. C. C. Company	Cananea, Sonora, Mex.
George Albert Harrison	U 1910 Civil Engineer	Wellsboro, Pa.

William Ralston Headden	U 1904	Troy, N. Y.
Assistant in Mathematics, Rensselaer Polytechnic Institute		
Fred George Hechler	F 1909 (Missouri U 1908)	Troy N. Y.
Assistant in Mechanical Engineering, Rensselaer Polytechnic Institute		
Phillip Walter Henry	CU 1887	New York City.
Consulting Engineer		
Byron Voltaire Herden	U 1909	Buffalo, N. Y.
Consulting Engineer, Tupfer and Remick		
Abraham Lincoln A Himmelwright	CU 1887	New York City
Consulting and Supervising Engineer		
Edward Mills Hoadley	U 1889	Richmond, Va.
Civil Engineer		
Richard Hayden Hood	U 1887	New York City
Engineer and Contractor (retired)		
John Smith Hoover	U 1906	
(Deceased 1907)		
Matthew Albert Hunter	F 1909*	Troy, N. Y.
Assistant Professor of Electro-chemistry and Physics, Rensselaer Polytechnic		
Herbert Armstrong Jaggard	U 1889	Elmira, N. Y.
Superintendent, Pennsylvania Railroad		
James Edgar Jenkins	U 1904	New York City
Engineer, Grant, Smith and Company		
Edward Crosby Jones	F 1910 (Columbia U 1908)	Troy, N. Y.
Assistant in Electrical Engineering and Physics, Rensselaer Polytechnic		
Walter Everett Jones	U 1901	Chicago, Ill.
Manager, Roebbing Construction Company		
Harry Edson Judd	U 1902	Keokee, Lee Co., Va.
Superintendent, Keokee Coal and Coke Company		
John Francis Kelly	U 1910	Albany, N. Y.
Testing Engineer, The Federal Signal Company		
Walter Lockwood Kelly	U 1904	Salt Lake City, Utah
General Superintendent, O. and J. McDonald Contracting Company		
Theodore Ely Knowlton	U 1891	New York City
Consulting Engineer		
Frederick Charles Koerner, Jr.	U 1906	Waterford, N. Y.
Assistant Engineer, New York State Barge Canal		
Guy Theodore Kuntz	U 1911	St. Louis, Mo.
With R. Y. Patterson		
Thomas R Lawson	U 1898	Troy, N. Y.
Professor of Mechanics, Rensselaer Polytechnic Institute		
Hugh Case Leibee	U 1907	Yankton, S. D.
City Engineer		
Azariah Thomas Lincoln	F 1909*† (Illinois F 1903)	Troy, N. Y.
Assistant Professor of Chemistry, Rensselaer Polytechnic Institute		
Antonio Llano	U 1889	New York City
Director, Spanish Department, International Correspondence Schools		

Julius Alfred Ludwig	U 1888 Civil Engineer	New York City
Cuyler Warfield Lush	U 1905 Engineer, T. M. McLeod Company, Contractors	New York City
Jesse Albert Martin (Deceased 1901)	U 1900	
John Lowrey Martin	U 1893 Director of Instruction, International Correspondence Schools	Scranton, Pa.
William Pitt Mason	F 1887*† Professor of Chemistry, Rensselaer Polytechnic Institute	Troy, N. Y.
James McGiffert, Jr	U 1891 Assistant Professor of Mathematics, Rensselaer Polytechnic Institute	Troy, N. Y.
Louis Zerega Mearns	U 1909 Assistant Chief Engineer, Baltimore Sewerage Commission	Baltimore, Md.
Herbert Eugene Miller	U 1909 Inspector, Board of Water Supply for New York City	Brown's Station, N. Y.
Howard Guy Millington	U 1908 Instructor in Engineering, Washington State College	Pullman, Wash.
Liberty Gilbert Montony (Deceased 1909)	U 1889	
Lewis Ferry Moody	F 1909 (Pennsylvania U 1901) Assistant Professor of Mechanical Engineering, Rensselaer Polytechnic	Troy, N. Y.
James Warren Morgan	U 1903 Agriculturist	Lewiston, N. Y.
John Hays Myers	U 1893 Engineer, Public Service Commission	New York City
Frank Lewis Nason	F 1887*† Geologist	West Haven, Conn.
Charles Herbert Neel	U 1906 Territorial Road Engineer	Santa Fe, N. M.
Julio Garzon Nieto	U 1893 Chief Engineer, Coast and Geodetic Survey	Bogota, Colombia
Kenneth Howard Osborn	U 1908 Concrete Inspector, City Department of Buildings	Cleveland, Ohio
Grant Knauer Palsgrove	U 1911 Assistant in Mechanical Engineering, Rensselaer Polytechnic Institute	Troy, N. Y.
Wainwright Parish	CU 1887 Parish and Schroeder, Architects	New York City
John Calvin Peck	U 1907 Commercial Engineer's Office, New York Telephone Company	Albany, N. Y.
Halsey Beecher Pomeroy (Deceased 1897)	U 1887	
William Joseph Popp	U 1909 With Shanley-Morrissey, Inc.	New York City
Frank Donald Porter	U 1906 Assistant Engineer, State Conservation Commission.	Albany, N. Y.

- Winfield Scott Potter U 1890 New York City
Vice-President, Manganese Steel Rail Company
- Victor Taylor Price CU 1887 Cincinnati, Ohio
District Manager, Buckeye Engine Company
- Louis Blackmer Puffer U 1909 Troy, N. Y.
Instructor in Mathematics, Rensselaer Polytechnic Institute
- Francisco Pujals Y Claret U 1909 Havana, Cuba
Civil Engineer, T. L. Huston Contracting Company, Engineers and Architects
- Walther Raster U 1900 Chicago, Ill.
Office Manager, E. C. and R. M. Shankland, Civil Engineers
- William Galt Raymond F 1895*† (Iowa F 1905) Iowa City, Ia.
Dean of College of Applied Science, State University of Iowa
- Paul Lyon Reed U 1893 Washington, D. C.
Civil Engineer, U. S. Navy, Bureau of Yards and Docks
- Octavio Mario Reyes U 1895 Bogota, Colombia
Merchant
- Winfred Everett Reynolds U 1903 New York City
Assistant Engineer, John H. Gray Company
- Edward Young Rice U 1911 Troy, N. Y.
Assistant, Electrical Engineering and Physics, Rensselaer Polytechnic
- Edward Dunbar Rich U 1895 Ann Arbor, Mich.
Assistant Professor of Civil Engineering, University of Michigan.
- Palmer Chamberlain Ricketts CF 1887*† Troy, N. Y.
President, Rensselaer Polytechnic Institute
- James Walter Rickey U 1894 Massena, N. Y.
Chief Engineer, Long Sault Development Co. and St. Lawrence Power Co., Ltd.
- George Newton Riker U. 1908 New York City
With James Stewart and Company
- William Lisenard Robb F 1905* Troy, N. Y.
Professor of Electrical Engineering and Physics, Rensselaer Polytechnic
- Arthur Wirt Robinson U 1897 Bridgeport, Conn.
Sales Manager, Locomobile Company of America
- James Vincent Rockwell U 1898 Charleston, S. C.
Civil Engineer, United States Navy
- Charles Edwin Rogers U 1896 Hartford, Conn.
Professor of Civil Engineering, Trinity College
- Alston Orange Rose U 1911 Walton, N. Y.
- Harry Harwood Rousseau U 1891† Culebra, C. Z.
Civil Engineer, Isthmian Canal Commission
- William White Rousseau, Jr U 1895 Troy, N. Y.
Assistant in Geodesy, Rensselaer Polytechnic Institute
- Edward Irvine Rudd U 1905 Boston, Mass.
Assistant Engineer, Boston and Albany Railroad
- Edgar Kingsbury Ruth U 1909 Cincinnati, Ohio
Assistant Engineer, Kaps-Brehm Company

Frederick Augustus Sabbaton	U 1892	Grand Mere, Ont.
Assistant Manager, Laurentide Company		
Charles George Schade	U 1892	Canonsburg, Pa.
Bridge Engineer, Fort Pitt Bridge Company		
Carl William Schedler	U 1910	Shepardstown, W. Va.
Construction Engineer		
Edward Delavan Nelson Schulte	F 1908	Troy, N. Y.
Associate Professor of Engineering, Rensselaer Polytechnic Institute		
Gerd Hayen Schulte	U 1908	Manila, P. I.
District Engineer, Bureau of Public Works		
Carl Julius Schumann	U 1902	Brooklyn, N. Y.
Secretary, Moller and Schumann, Varnish Manufacturers		
George Corliss See	U 1905	Albany, N. Y.
Assistant Engineer, New York State Highway Commission		
Robert Erwin Sheal	U 1893	Cleveland, Ohio
With The Wellman-Seaver-Morgan Company		
Ralph Harrison Sherry	F 1908 (Stanford G 1905)	Buffalo, N. Y.
Metallurgist, Pierce Arrow Motor Car Company		
Harry Shoemaker	U 1904	Mechanicsville, N. Y.
Assistant Engineer, New York State Barge Canal		
Alfred Gale Slatcher	U 1908	Troy, N. Y.
With T. L. Huston Contracting Company		
Harrison Smith	U 1905	New Orleans, La.
Superintendent, Wells Brothers Company of New York		
Pemberton Smith	U 1888	Buenos Aires, Argentina
General Representative, United States Steel Products Export Company		
Arthur Porter Smyth	U 1910	Helena, Mont.
Junior Engineer, United States Reclamation Service		
Earl Eugene Sperry	U 1904	Syracuse, N. Y.
Assistant Civil Engineer, Solvay Process Company		
David Brier Taylor	U 1909	Troy, N. Y.
Assistant Superintendent, Electrical Department, Troy Gas Company		
Samuel Richards Thomas	U 1891	Hokendauqua, Pa.
Superintendent, Ironton Railroad		
Alfred Whitticar Thompson	U 1907	Erie, Pa.
Architectural Engineer, General Electric Company		
Clark Wallace Thompson	U 1887	Cascade Locks, Ore.
Vice-President and General Manager, Wind River Lumber Company		
Dwinel Burt Thompson	U 1907	Troy, N. Y.
Graduate Student, Rensselaer Polytechnic Institute		
Dwinel French Thompson	F 1905 †	Troy, N. Y.
Professor of Descriptive Geometry, Rensselaer Polytechnic Institute		
Gordon Saxton Thompson	U 1905	Troy, N. Y.
Assistant in Mechanics, Rensselaer Polytechnic Institute		
Harold Grant Thompson	U 1898	Albany, N. Y.
Principal Assistant Engineer, Federal Signal Company		
Mackay James Thompson	U 1893	St. Paul, Minn.
Farm Land Securities		

John Edmund Tonneller	U 1911	Wernersville, Pa.
Walter James Towne	U 1895	Chicago, Ill.
Engineer, Chicago and Northwestern Railway		
Benjamin Mitchell Turner	U 1888	Troy, N. Y.
Master Mechanic, Burden Iron Company		
Daniel Lawrence Turner	U 1891	New York City
Chief of Bureau Transit Inspection, Public Service Commission		
James Foster Tuthill	U 1898	New York City
With J. G. White and Company		
James Foster Tuthill	U 1898	Shelburne Falls, Mass.
Resident Engineer, Dam No. 2, Power Construction Company		
Wilmer Charles Van Duyne	U 1907	East Orange, N. J.
Chief Engineer, East Orange and Ampere Land Company		
Paul Adolf Volcker	U 1911	Lyons, N. Y.
Rodman, New York State Barge Canal		
Henry Belin Voorhees	U 1896	Baltimore, Md.
General Superintendent of Transportation, Baltimore and Ohio Railroad		
Richard George Wagner	U 1887	Milwaukee, Wis.
President, Wisconsin Sugar Company		
Albert Gustave Walter	U 1911	Pensacola, Fla.
Draftsman, Gulf, Florida and Alabama Railway		
Frederick Joseph Walter	U 1910	Aberdeen, S. D.
With R. B. Easton, Civil Engineer		
George Merritt Ward	U 1907	New York City
President and General Manager, George M. Ward Company, Inc.		
Webster Earle Waterbury	U 1910	Albany, N. Y.
Highway Inspector, New York State Highway Commission		
Clarence Bingham Watkins	U 1903	Pittsburgh, Pa.
Contractor		
Frank Roderic Weaver	U 1909	Johnstown, Pa.
Engineer, The Lorain Steel Company		
John Leroy Weber	U 1910	Troy, N. Y.
Assistant in Electrical Engineering, Rensselaer Polytechnic Institute		
William Earl Whitney	U 1896	Troy, N. Y.
Joint Proprietor, West Side Structural Company		
Eugene B Wilhelm	U 1908	Detroit, Mich.
Engineer, Grand Lawn Cemetery Association		
William MacIlhenny Wilkinson	U 1910	Philadelphia, Pa.
With M. Ward Easby, Constructing Engineer		
Wyant James Williams	U 1905	Troy, N. Y.
Instructor in Electrical Engineering and Physics, Rensselaer Polytechnic		
Frank J. Willson	U 1911	Troy, N. Y.
Assistant in Mechanical Engineering, Rensselaer Polytechnic Institute		
Joseph Franklin Witmer	U 1887	Buffalo, N. Y.
Hydraulic and Sanitary Engineer, Chapin Block		
Albert William Zahnleitter	U 1908	Pittsburgh, Pa.
Estimator, Riter-Conley Manufacturing Company		
Carolus Hermann Zane-Cetti	U 1897	Fort Worth, Tex.
Civil Engineer		

THETA CHAPTER

UNION COLLEGE, SCHENECTADY, NEW YORK

Charter Dated 1887

Chapter Installed 1887

HISTORICAL SKETCH

Theta Chapter was organized and received its charter in 1887. The establishment of the Chapter was due largely to the efforts of Professor Charles Carroll Brown, who was then Professor of Civil Engineering at Union College, and it has since enjoyed a prosperous career. Several meetings have been held each year for the transaction of regular business, the presentation of papers and the discussion of scientific subjects. Unfortunately the proceedings have never been published.

The Chapter has always been conservative in the election of new members. For this reason selection for membership to Sigma Xi is highly appreciatel by our students.

Through the efforts of our president, Doctor James H. Stoller, a directory of Theta Chapter was published in 1907. This directory gives a brief history of each member, his membership in learned societies, and his contributions and publications on scientific subjects.

J. H. C.

PUBLICATIONS

Catalogue of Theta Chapter of the Society of the Sigma Xi of Union College. Schenectady, N. Y., 1907. 32 pp.

OFFICERS FOR 1911-12

President.....	EDWARD ELLERY
Vice-President.....	OLIN JEROME FERGUSON
Recording Secretary.....	MORLAND KING
Corresponding Secretary.....	JAMES HANNA CUNNINGHAM
Treasurer.....	HOWARD OPDYKE
Councilor.....	OLIN HENRY LANDRETH

MEMBERSHIP ROLL

Frank William Allen	G 1893	White Plains, N. Y.
Engineer with McMullen and McDermott, Contractors		
William Allen	A 1910	New York City
Lawyer		
Andrew Ordell Avery	G 1907	Chicago, Ill.
Engineer, Western Electric Company		
Miles Ayrault	G 1895	Tonawanda, N. Y.
Vice-President and Treasurer, National Roofing Company		
E Brown Baker	A 1892	Herkimer, N. Y.
Manager, Acme Engineering and Contracting Company		

Harold Wallace Baker	U 1911	Oneida, N. Y.
Civil Engineer, Coleman DuPont Road		
Thomas Webster Barrally	CG 1887	Tonawanda, N. Y.
Resident Engineer, New York State Barge Canal		
Roland Miller Bartlett	G 1910	Oak Hill, Ill.
Teacher, School of Jubilee		
Walter J Becker	G 1910	Schenectady, N. Y.
Engineer, General Electric Company		
Nathan Beckwith	G 1894	New York City
Assistant Auditor, State Insurance Department		
Raymond S Bennet	G 1910	Schenevus, N. Y.
Engineer		
Louis Ray Bennett	U 1911	Hinckley, N. Y.
Engineer, New York State Barge Canal		
Everett J Best	G 1902	Enosburg Falls, Vt.
Principal, City Schools		
Howard Elmer Bishop	G 1907	Sayre, Pa.
Coal Dealer		
Edward Emanuel Bocian	G 1908	Chicago, Ill.
Electrical Engineer		
Lewis Boss	F 1903*†	Albany, N. Y.
Director, Dudley Observatory		
John Hammond Bovier	G 1910	Elmira, N. Y.
Civil Engineer, State Barge Canal		
Byron Briggs Brackett	F 1898*	Brookings, S. D.
Professor of Electrical Engineering, South Dakota State College		
Henry Ward Briggs	G 1890	Wilmington, Del.
Physician		
Charles Carroll Brown	CF 1887*†	Indianapolis, Ind.
Consulting Engineer, Editor of Municipal Engineering		
Edgar Brown	G 1895	Washington, D. C.
Botanist, U. S. Department of Agriculture		
Robert Leonard Brunnett	G 1909	Schenectady, N. Y.
Engineer, General Electric Company		
George D Buel	CG 1887	
(Deceased 1892)		
John Albert Charlton Callan	F 1910	Schenectady, N. Y.
Instructor in Engineering Drawing, Union College		
Edward Madison Cameron	CG 1887	Albany, N. Y.
Lumber Dealer		
Melvin David Casler	G 1906	New York City
Assistant Engineer, Board of Water Supply		
William Spencer Cassidy	G 1891	Gloversville, N. Y.
Lawyer		
Arnold Goodwin Chapman	G 1906	Albany, N. Y.
Secretary to New York State Engineer		

Rodolphus Phillip Clark	G 1909	Schenectady, N. Y.
Engineer, General Electric Company		
Charles Cleaver	G 1896	Brooklyn, N. Y.
Engineer, Brooklyn Rapid Transit Company		
H Burdett Cleveland	G 1902	Albany, N. Y.
Assistant Engineer, New York State Health Department		
Edward Bernard Coburn	G 1888	New York City
Physician, New Amsterdam Eye and Ear Hospital		
Clarence Tallman Coley	F 1903	New York City
Electrical Engineer		
Archie Randall Conover	G 1888	Amsterdam, N. Y.
Lawyer		
Frank Cooper	G 1893	Schenectady, N. Y.
Corporation Counsel of Schenectady		
Elmer Elsworth Farmer Creighton	F 1905	Schenectady, N. Y.
Electrical Engineer, General Electric Company		
Edgar Roscoe Cumings	G 1897*† (Indiana CF 1904)	Bloomington, Ind.
Professor and Head of Department of Geology, Indiana University		
Homer P Cumings	F 1892	Painesville, Ohio
City Engineer		
James Hannah Cunningham	G 1905	Schenectady, N. Y.
Instructor in Electrical Engineering, Union College		
Richard Sydney Curtiss	F 1903*	Urbana, Ill.
Assistant Professor of Chemistry, University of Illinois		
Clarence Raymond Darby	G 1906	Toronto, Canada
Electrical Engineer		
Arthur Edgar Davies	G 1908	Schenectady, N. Y.
Lawyer		
Cassius Miles Davis	G 1909	Schenectady, N. Y.
Consulting Engineer, General Electric Company		
Hugh Garnett Davis	G 1907	New York City
Engineer, J. G. White and Company		
Thomas G Delbridge	G 1903 (Cornell F 1904)	Ithaca, N. Y.
Instructor in Chemistry, Cornell University		
Archibald Stewart Derby	G 1896	Hudson Falls, N. Y.
Lawyer		
Edward Wilkins Dewey	CG 1887	Bradys Bend, Pa.
President, Allegheny River Improvement Association		
William Jay Dickinson	G 1903	Pittsfield, Mass.
With General Electric Company		
Lindsay Duncan	F 1901	Boulder, Col.
Professor of Civil Engineering, University of Colorado		
Frederick Marshall Eames	G 1895	Albany, N. Y.
Assistant Civil Engineer, New York State Barge Canal		
Horace Taylor Eddy	F 1900	Cincinnati, Ohio
Treasurer, Machinery Sales Company		

Frederick Edwards	F 1902 Civil Engineer	Troy, N. Y.
Edward Ellery	F 1905 Professor of Chemistry, Union College	Schenectady, N. Y.
Tringad Knight Evans	G 1905 Instructor in Electrical Engineering	Wales, England
Olin Jerome Ferguson	F 1905 (Nebraska G 1903) Associate Professor of Electrical Engineering, Union College	Schenectady, N. Y.
Raymond J Finch	G 1909 Engineer, American Locomotive Company	Schenectady, N. Y.
William Lewis Fisher	G 1898 Assistant Curator, Philadelphia Museum	Philadelphia, Pa.
George H Furbeck	G 1892 Physician	Cohoes, N. Y.
Charles Frederick Flemming	Garis F 1908 Professor of Mathematics, Union College	Schenectady, N. Y.
Wilbert A Garrison	F 1910 Assistant Professor of Mathematics, Union College	Schenectady, N. Y.
Franklin Henry Giddings	A 1902*† Professor of Sociology, Columbia University	New York City
Fred Girvin	G 1907 Chemist, General Electric Company	Schenectady, N. Y.
Harland Haviland Grover	G 1910 Engineer, General Electric Company	Schenectady, N. Y.
Loren C Guernsey (Deceased 1901)	G 1895	
Thomas Edward Hannigan	G 1908 Journalist	Schenectady, N. Y.
James Herring	G 1896 With The Schofield Company	Philadelphia, Pa.
Leland Silas Hoffman	G 1908 Instructor in Mathematics, Bancroft School	Worcester, Mass.
Francis Edward Holleran	G 1895 Chief Draftsman, Engineering Department, Panama Canal	Washington, D. C.
Adam John Horn	G 1910 Cost Clerk, Union Mills	St. Johnsville, N. Y.
John Wilbur Hughes	F 1907 Civil Engineer, General Electric Company, Erie Works	Erie, Pa.
Daniel Ferguson Imrie	G 1906 Lawyer	Lake George, N. Y.
Leland Wesley Irish	U 1904 Civil Engineer	Evanston, Ill.
Edgar Boyd Kay	F 1897 Dean, College of Engineering, University of Alabama	Tuscaloosa, Ala.
Eric Ture King	G 1905 Assistant Engineer, New York City Board of Water Supply	Cornwall-on-Hudson, N. Y.

Morland King	G 1905	Schenectady, N. Y.
Instructor in Electrical Engineering, Union College		
Warner King	G 1906	Brooklyn, N. Y.
Assistant Engineer, New York City Board of Water Supply		
Walter Gill Kirkpatrick	F 1894	Jackson, Miss.
Kirkpatrick and Johnson, Civil and Mechanical Engineers		
Frederick Klein	G 1895	New York City
Lawyer		
August H Kruesi	G 1906	Schenectady, N. Y.
Designing Engineer, General Electric Company		
Olin Henry Landreth	F 1894*†	Schenectady, N. Y.
Professor of Engineering, Union College		
William Baker Landreth	A 1911	Schenectady, N. Y.
Consulting Engineer		
Arthur Hamilton Lawton	G 1900	New York City
With New York Edison Company		
Walter Lewman Lawton	G 1894	Oswego, N. Y.
Civil Engineer		
Andrew Wright Lent	G 1904	Highland, N. Y.
A. D. and A. W. Lent, Attorneys		
Arthur Maurice Lewald	G 1893	Chicago, Ill.
Lawyer		
Leon Roy Lewis	G 1906	Hudson Falls, N. Y.
Lawyer		
Beekman Cox Little	G 1891	Rochester, N. Y.
Superintendent, Rochester Water Works		
Livingston J Little	F 1890	
(Deceased 1909)		
Sidney J Lockner	A 1891	Copenhagen, N. Y.
Principal, High School		
Frank Ira Losee	G 1905	Newark, N. J.
Instructor in History, Barringer High School		
Edward Patrick McKeefe	G 1898	Albany, N. Y.
Chemist, New York State Department of Agriculture		
Augustine Marx	G 1908	Schenectady, N. Y.
Electrical Engineer, General Electric Company		
Arthur Lyman Maxon	U 1911	Corning, N. Y.
Teacher, Corning Free Academy		
John Crap Merchant	G 1898	Pine Plains, N. Y.
Physician		
Edward Waite Miller	CG 1887	Albany, N. Y.
Clergyman		
Howard Townsend Mosher	F 1895	Rochester, N. Y.
Lawyer		
Monte Josiah Multer	G 1897	Cooperstown, N. Y.
Principal of Union and High School		

Alexander Joseph Nicht, Jr	G 1907	Milwaukee, Wis.
Electrical Engineer, Allis-Chalmers Company		
Howard Opdyke	F 1895	Schenectady, N. Y.
Professor of Physics, Union College		
David Henry Osborne	G 1907	Victor, N. Y.
Glowacki Redfield Parker	G 1903	Schenectady, N. Y.
Commercial Engineer, General Electric Company		
Arthur Adams Patterson	U 1911	Glens Falls, N. Y.
Engineer, New York State Barge Canal		
James Lawson Patterson	F 1895*†	Philadelphia, Pa.
Headmaster, Chestnut Hill Academy		
William Edward Paul	G 1910	Schenectady, N. Y.
Engineer, General Electric Company		
Leighton H Peebles	G 1906	New York City
Engineer for J. G. White and Company, Inc.		
Edward Penrose, Jr	G 1908	Cohoes, N. Y.
Employed on New York State Barge Canal		
Albert Hartwell Pepper	CG 1887	Schenectady, N. Y.
W. T. Hanson Company		
Maurice Perkins	CF 1887†	
(Deceased 1901)		
Alfred Edward Phillips	CG 1887	Chicago, Ill.
Head of Department of Civil Engineering, Armour Institute of Technology		
Edward Ferguson Pickford	G 1889	Washington, D. C.
Lecturer on Hygiene, National University		
George Edward Pollock	G 1896	
(Deceased 1904)		
Horatio Milo Pollock	G 1895	Albany, N. Y.
Statistician and Editor, State Lunacy Commission		
Henry Wray Preston	G 1891	Elmira Heights, N. Y.
Engineer, Elmira Plant, Empire Bridge Company		
Charles Smith Prosser	F 1895*† (Ohio F 1900)	Columbus, Ohio
Professor of Geology, Ohio State University		
Thomas Henry Reddish	G 1892	Owego, N. Y.
Cashier, Owego National Bank		
Lloyd Nash Robinson	U 1911	Schenectady, N. Y.
Engineer, General Electric Company		
Richard Burton Rowe	G 1896	
(Deceased 1902)		
Arthur Jay Roy	G 1893*	Albany, N. Y.
First Assistant, Dudley Observatory		
Elbert Theodore Rullison	G 1904	New York City
Student, Roosevelt Hospital		
Howard Emmet Sands	G 1902	East Walpole, Mass.
With F. W. Bird and Son		
Herbert Davis Schutt	G 1909	Calgary, Alberta
Civil Engineer		

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Edson Mason Scofield	CG 1888	Philadelphia, Pa.
President, The Scofield Engineering Company		
Glenn Mason Scofield	G 1897	Philadelphia, Pa.
Vice-President, The Scofield Engineering Company		
Lynn M Scofield	G 1897	San Francisco, Cal.
President, L. M. Scofield Company		
David Joseph Shaw	G 1902	
(Deceased 1910)		
Philip Foster Shutler	G 1910	Fulton, N. Y.
Assistant City Engineer		
Stephen Elmer Slocum	G 1897†	Cincinnati, Ohio
Professor of Applied Mathematics, University of Cincinnati		
Cady Staley	F 1888† (Case F 1907)	Cleveland, Ohio
Professor of Political Economy, Case School of Applied Science		
Charles Proteus Steinmetz	F 1903†	Schenectady, N. Y.
Professor of Electrical Engineering, Union College		
Franklin Rand Stevens	G 1908	Rutland, Vt.
Civil Engineer, Rutland Railway		
George C Stewart	G 1889	Amsterdam, N. Y.
Lawyer		
James Hough Stoller	F 1889*	Schenectady, N. Y.
Professor of Biology and Geology, Union College		
S Vernon Travis	U 1911	Schenectady, N. Y.
Engineer, General Electric Company		
James Reagles Truax	CF 1887	Schenectady, N. Y.
Journalist		
Charles W Trumbull	G 1892	Schenectady, N. Y.
City Engineer		
Willis Gaylord Tucker	CF 1887*†	Albany, N. Y.
Professor of Chemistry and Toxicology, Albany Medical College		
Ansel Augustus Tyler	F 1898*†	Bellevue, Neb.
Professor of Biology, Bellevue College		
H A Van Alstyne	A 1909	Schenectady, N. Y.
Lawyer		
Richard Van Busekum	G 1894	
(Deceased)		
Wayne Avril Vandergrift	G 1908	Schenectady, N. Y.
Electrical Engineer, General Electric Company		
Gardner Lewis Van Dusen	G 1896	New York City
Assistant Engineer in Topographic Bureau, Borough of Queens		
Wellington Eugene Van Wormer	G 1901	Middleburgh, N. Y.
District Superintendent of Schools		
Carl Otto von Dannenberg	G 1906	New York City
Electrical Engineer, J. G. White and Company		
Dow Vroman	CG 1887	North Tonawanda, N. Y.
President, Board of Education		

- Clarence Ablathar Waldo F 1890*† (Purdue CF 1909) St. Louis, Mo.
Professor of Mathematics, Washington University
- Elton David Walker F 1895 State College, Pa.
Professor of Engineering, Pennsylvania State College
- Otto Jean Walrath G 1909 Ossining, N. Y.
Teacher, Mount Pleasant Academy
- Robert Hoosick Washburne G 1889 Benson, Vt.
Methodist Minister
- Harrison E Webster F 1888
(Deceased 1906)
- William Earl Weller G 1907 Schenectady, N. Y.
Deputy City Engineer
- William Wells CF 1887
(Deceased 1908)
- Karl Frederick West G 1905 Cornwall-on-Hudson, N. Y.
Engineer, New York City Board of Water Supply
- Edwin Bennett Wheeler F 1902 New York City
Assistant in Physics, Columbia University
- Edward Jonathan Wheeler G 1894 Albany, N. Y.
Chief Chemist, State Department of Agriculture
- Peter J Whitmore G 1910 Schenectady, N. Y.
Engineer, General Electric Company
- Frank Blair Williams F 1901 Worcester, Mass
Professor of Mathematics, Clark University
- Robert Neil Williams F 1903 Berlin, Germany
Manager, Deutsche Hollerith Machine Company, Ltd.
- Harry P Willis G 1903 Waterford, N. Y.
Engineer
- Edwin Henry Winans F 1898 Rochester, N. Y.
Lawyer
- Dann Leonard Wood G 1897 Schenectady, N. Y.
Patent Attorney, General Electric Company
- Thomas Wallace Wright CF 1887
(Deceased 1908)
- William Howard Wright A 1898 Schenectady, N. Y.
Manufacturer
- Daniel Albert Young F 1908 Schenectady, N. Y.
Assistant Engineer, State Highway Department

IOTA CHAPTER

UNIVERSITY OF KANSAS, LAWRENCE, KANSAS

Charter Granted December 4, 1889

No Formal Installation

HISTORICAL SKETCH

As far as can be learned the Kansas Chapter of Sigma Xi has never had a charter, nor was it installed. This is due to the fact that it was one of the early chapters formed.

In the records of the first meeting, held April 21, 1890, the following statements occur: "The chairman reported that permission had been received from the President of the parent chapter of Sigma Xi at Cornell University to establish a chapter of Sigma Xi at the University of Kansas upon the adoption of the constitution of the society. It was voted that a Chapter be organized at the University of Kansas with Professors Bailey, Blake, Marvin, Miller and Snow, heads of the scientific departments, as charter members." In the minutes of the sixth meeting held June 1, 1892, in reporting the adoption of the revised constitution, the name Iota Chapter first occurs.

Sixteen meetings were held up to June, 1896, and in the autumn of that year "frequent meetings" of a combined scientific, business and social nature, began. Since 1899 such meetings are regularly held on the third Thursday of each month of the school year. At these meetings a semi-popular paper or lecture is given, showing recent advances in a special field of science, or results of investigations carried on by the writer or speaker. These frequent meetings, together with the great interest and enthusiasm shown by the early members, have given the Chapter the standing and influence it has today. All the charter members are still active members. The faithfulness of the early members is well exemplified by the first president, Professor F. O. Marvin, who served as president for ten years and who attended twenty-six out of the first twenty-eight meetings held during the first eight years of his incumbency.

Since 1900 the Chapter has alternated with Phi Beta Kappa in furnishing a prominent speaker for the Annual Convocation Week. Aside from this, the Chapter brings at its own expense one or two prominent speakers to the University for popular public lectures. For the last two years one of these has been the Missouri-Iowa-Nebraska-Kansas "circuit" speaker.

Locally, the Chapter was largely responsible for the co-ordination of the work in the high schools of the state, and the University; also, in raising the amount of the required science work. Since 1906 the April meeting is given over wholly to a social program. A banquet is followed by burlesques and "take-offs" on the doings of science and scientists

locally as well as nationally. This is a revival of a custom of the old Science Club, "The It," which was in a way the predecessor of the Iota Chapter in this University. A glance at the list following will show a considerable number of names of persons who have attained eminence in some line of work.

Members of T B II who are members of the faculty are allowed to affiliate and enjoy all privileges except that of voting.

W. J. B.

PUBLICATIONS

Sigma Xi, the Honorary Scientific Society of American Colleges, 1890.

Membership of the Iota Chapter of the Society of Sigma Xi, 1899.

Catalog of the Members of the Iota Chapter of the Society of Sigma Xi. January 1, 1903.

Supplementary List of the Members of the Iota Chapter of the Society of Sigma Xi. June 1, 1905.

Higher Education in Kansas. (An address given before the Kansas University Chapter by Professor S. W. Williston, President of Sigma Xi). June 1902. pp. 16.

OFFICERS FOR 1911-12

President.....	LUCIUS ELMER SAYRE
Vice-President.....	PERLEY F. WALKER
Recording Secretary.....	CLINTON MASON YOUNG
Corresponding Secretary.....	WILLIAM JACOB BAUMGARTNER
Treasurer.....	HERBERT WILLIAM EMERSON
Councilor.....	EDGAR HENRY SUMMERFIELD BAILEY

MEMBERSHIP ROLL

Arthur Lincoln Adams	A 1896†	San Francisco, Cal.
	Hydraulic Engineer	
Charles Frederick Adams	G 1902* (Chicago G 1903)	Fayetteville, Ark.
	Dean of College of Agriculture, University of Arkansas	
George Irving Adams	A 1900*†	Manila, P. I.
	Mining Geologist, U. S. Geological Survey	
Ira James Adams	U 1906	Cleveland, Ohio
	Patent Attorney, National Carbon Company	
Frank Ulysses Grant Agrellius	U 1907	Emporia, Kan.
	Assistant in Biology, State Normal School	
George Rockwell Albers	U 1896	Los Angeles, Cal.
	Dealer in Poultry Supplies	
John Martin Aldrich	A 1902*†	Moscow, Ida.
	Professor of Biology, University of Idaho	
Herman Camp Allen	G 1906	Lawrence, Kan.
	Assistant Professor of Chemistry, University of Kansas	
Charles Hamilton Ashton	F 1904*	Lawrence, Kan.
	Associate Professor of Mathematics, University of Kansas	

Rupert Frederick Aspinall	U 1910 Mining Engineer	Eureka, Nev.
Edgar Henry Summerfield Bailey	CF 1890*† Professor of Chemistry, University of Kansas	Lawrence, Kan.
George Clyde Baldwin	U 1905 District Engineer, Water Resources Branch, U. S. Geological Survey	Boise, Ida.
Carl Milton Ball	U 1909 Chemist, Mammoth Copper Mining Company	Kennett, Cal.
Marshall Albert Barber	U 1891* Professor of Bacteriology and Pathology, University of Kansas	Lawrence, Kan.
Ernest Henry Barkmann	U 1903 Engineer, Missouri Valley Bridge and Iron Company	Leavenworth, Kan.
John Firmen Barnhill	U 1910 Superintendent of City Schools	Paola, Kan.
Edmond Montgomery Bartholow	U 1908 Principal of High School	Blue Rapids, Kan.
Edward Bartow	F 1898*† (Illinois F 1908) Director of State Water Survey, University of Illinois	Urbana, Ill.
Edwin Abraham Baumgartner	U 1910 Instructor in Anatomy, University of Wisconsin	Madison, Wis.
William Jacob Baumgartner	G 1900* (Chicago G 1903) Assistant Professor of Zoology, University of Kansas	Lawrence, Kan.
Joshua William Beede	G 1897*† (Indiana CF 1904) Associate Professor of Geology, University of Indiana	Bloomington, Ind.
John Dinsmore Bigger	G 1909 Director, Presbyterian Hospital	Kangkai, Korea
Frederick Horatio Billings	F 1907* Associate Professor of Botany, University of Kansas	Lawrence, Kan.
Maulsby Willett Blackman	G 1902* Associate Professor of Zoology, Syracuse University	Syracuse, N. Y.
Lucien Ira Blake	CF 1890* Chief Engineer, Submarine Signal Company	Boston, Mass.
Harold Veatch Bozell	U 1908 Professor of Electrical Engineering, University of Oklahoma	Norman, Okla.
Edwin Bayer Branson	U 1903* (Missouri F 1910; Chicago G 1904) Professor of Geology, University of Missouri [Columbus, Mo.]	
Helen Barten Brewster (Mrs Fred William Owens)	G 1902	Ithaca, N. Y.
Frank Peterson Brock	U 1906 Fellow in Industrial Research	Lawrence, Kan.
Harry Peter Broderson	U 1908 Assistant Foreman, General Electric Company	Schenectady, N. Y.
Orville Harry Brown	G 1901* (Chicago G 1903) Assistant Professor of Medicine, St. Louis University	St. Louis, Mo.
William Harvey Brown	A 1890 Author and Ranchman	Salisbury, Rhodesia

Ivan Roy Burket	U 1910	Boston, Mass.
Fellow in Physiology, Harvard Medical School		
Montrose Thomas Burrows	U 1905	New York City
Associate Professor of Anatomy, Cornell University		
Francis William Bushong	F 1906*	Lawrence, Kan.
Associate Professor of Chemistry, University of Kansas		
Mable Rowena (Davis) Byerley	U 1906	Humboldt, Kan.
(Mrs W A Byerley)		
Hamilton Perkins Cady	U 1897*	Lawrence, Kan.
Professor of Chemistry, University of Kansas		
Eugene Wilson Caldwell	U 1901*†	New York City
Visiting Physician, Presbyterian Hospital		
Albert Luther Candy	A 1894*† (Nebraska CF 1897)	Lincoln, Neb.
Professor of Pure Mathematics, University of Nebraska		
Estella Eleanor Carothers	U 1911	Lawrence, Kan.
Fellow in Zoology, University of Kansas		
Richard William Carter	U 1894	Marathon, Fla.
Bridge Engineer, Florida East Coast Railway		
Ermine Cowles Case	U 1893* (Michigan F 1903)	Ann Arbor, Mich.
Professor of Geology and Paleontology, University of Michigan		
Charles Walter Chapin	U 1907	Madeline, Cal.
Superintendent, Madeline Meadows Land and Irrigation Company		
George Robert Chapin	U 1902	
(Deceased 1909)		
Charles Herbert Chapman	U 1911	Schenectady, N. Y.
Engineer Testing Department, General Electric Company		
Earl Finley Clark	U 1907	Piqua, Kan.
Physician		
Herbert Anthony Clark	U 1897 (Syracuse CF 1906)	Syracuse, N. Y.
Associate Professor of Physics, Syracuse University		
Helen Clarke	A 1910	Lawrence, Kan.
Instructor in Correspondence Department, University of Kansas		
Clarence LeRoy Cole	A 1908	Ft. Logan, Col.
Captain, Medical Corps, United States Army		
Harry Shipp Coleman	U 1909	New York City
Engineer, Jacobs-Shupert, U. S. Firebox Company		
Ward Hance Cook	U 1909	Boston, Mass.
Student, Harvard Medical School		
Everett Copley	U 1908	
(Deceased 1911)		
Charles Ives Corp	F 1909	Lawrence, Kan.
Associate Professor of Mechanical Engineering, University of Kansas		
Frank Morgan Cortelyou	U 1907	Van Buren, Ark.
Resident Engineer for Waddell and Harrington Construction Company		
Alberta Cory	U 1900	New York City
(Mrs F E Matthews)		

Walter Richard Crane	U 1895*	State College, Pa.
Dean, School of Mines, Pennsylvania State College		
Charles Corwin Crew	U 1896	Alexandria, La.
Manager, A. Wyckoff and Son		
Roy Cross	U 1905	Kansas City, Mo.
Secretary and Engineer, Kansas City Testing Laboratory		
Gertrude Anna Crotty	U 1892*	Cold Spring Harbor, L. I., N. Y.
(Mrs C B Davenport)		
Samuel Ebb Crumb	U 1908	Washington, D. C.
Investigator, U. S. Bureau of Entomology		
John Edward Curry	U 1893	Winchester, Kan.
Farmer		
Robert William Curtis	G 1904* (Yale F 1904)	New York City
Instructor in Chemistry, University of City of New York		
Frank Burnett Dains	F 1894*†	Lawrence, Kan.
Associate Professor of Chemistry, University of Kansas		
B J Dalton	F 1909	Lawrence, Kan.
Associate Professor of Railway Engineering, University of Kansas		
Gertrude Anna (Crotty) Davenport	G 1892*	Cold Spring Harbor, L. I., N. Y.
(Mrs C B) Instructor in Microscopical Methods, Biological Laboratory		
Mable Rowena Davis	U 1906	Humboldt, Kan.
(Mrs W A Byerley)		
Roger Dean	U 1904	Fresno, Cal.
With Santa Fe Railway		
Hugo Diemer	F 1903*	State College, Pa.
Professor of Industrial Engineering, Pennsylvania State College		
Robert Kennedy Duncan	F 1907*†	Lawrence, Kan.
Director of Industrial Research, University of Kansas		
Elijah Herbert Dunmire	U 1905	Lawrence, Kan.
City Engineer		
Arthur St. Clair Dunstan	F 1896*	Auburn, Ala.
Professor of Electrical Engineering, Alabama Polytechnic Institute		
Lewis Lindsay Dyche	F 1890*†	Lawrence, Kan.
State Fish and Game Warden, University of Kansas		
Arnold Emch	F 1895* (Colorado CF 1905; Illinois F 1911)	
Assistant Professor of Mathematics, University of Illinois [Urbana, Ill.]		
Herbert William Emerson	F 1904*	Lawrence, Kan.
Assistant Professor of Pharmacy, University of Kansas		
Samuel Charles Emley	F 1905*	Kansas City, Mo.
Associate Professor of Rhmologyngology, University of Kansas		
Daniel Edward Esterly	U 1890	Topeka, Kan.
Ophthalmologist		
Warren Fred Faragher	U 1904	Boston, Mass.
Chemist, Alden Speare's Sons Company		
Paul Vance Faragher	U 1908	Boston, Mass.
Graduate Student, Massachusetts Institute of Technology		

Hattie Fenner (Mrs Robert L Rinker)	U 1910	Kansas City, Mo.
Guy Finney Student, University of Kansas Medical School	U 1910	Rosedale, Kan.
Effie (Pyle) Fisher (Mrs Jesse Fisher)	U 1900 Wife of Methodist Missionary	Haviland, Kan.
Anna Louise (McKinnon) Fitch (Mrs Edward Fitch)	A 1894	Clinton, N. Y.
Thomas Bartlett Ford Chemist, Bureau of Standards, U. S. Department of Agriculture	U 1904	Washington, D. C.
Richard Foster	A 1884 Physician	Bremerton, Wash.
Vernon S Foster Assistant in Engineering, Massachusetts Institute of Technology	U 1909	Boston, Mass.
Edward Curtis Franklin Chemist in Hygienic Laboratory	F 1890*† (Stanford F 1903)	Washington, D. C.
William Suddards Franklin Professor of Physics and Electrical Engineering, Lehigh University	F 1890*†	South Bethlehem, Pa.
John M Freeman (Deceased 1911)	G 1899	
Bert Charles Frichot Chemist, Petroleum Products Company	U 1909	Independence, Kan.
Arthur Bowes Frizell Professor of Mathematics, McPherson College	F 1910*	McPherson, Kan.
George F Gaumer	A 1890 Physician	Izanah, Yucatan, Mex.
Daniel Edwin Gelwix United States Reclamation Service	U 1907	Washington, D. C.
Edward Thomas Gibson Student, University of Kansas Medical School	G 1908	Rosedale, Kan.
Ray Edwin Gilman Instructor in Mathematics, State Agricultural College	U 1911	Manhattan, Kan.
Pressley Adams Glenn Chief Horticultural Inspector for State Entomologist	F 1908* (Illinois F 1911)	Urbana, Ill.
Ralph Curtis Gowell (Deceased 1897)	U 1896	
Wyman Reed Green Science Teacher, High School	U 1911	Wichita, Kan.
Marie Anna Greene	U 1904 Physician	Kansas City, Kan.
Bessie Eleanor Growe (Mrs Frank Marion Morrison)	U 1897 (Washington CG 1907)	Seattle, Wash.
Charles Merl Gruber Fellow in Physiology, University of Kansas	U 1911	Lawrence, Kan.
Carl Frederic Gustafson Teacher in Chemistry, Manual Training High School	G 1902	Kansas City, Mo.

Thomas Hambleton	U 1908 With General Electric Company	Schenectady, N. Y.
John Lyle Harrington	U 1895† Consulting Engineer, Waddell and Harrington	Kansas City, Mo.
James Arthur Harris	U 1900* Research Worker, Station for Experimental Evolution	Cold Spring Harbor, L. I., N. Y.
George Wilbur Hartwell	F 1909* Professor of Mathematics, Hamline University	St. Paul, Minn.
John King Harvey	U 1908 Physician	Salina, Kan.
L D Havenhill	F 1902* Professor of Pharmaceutical Chemistry, University of Kansas	Lawrence, Kan.
Erasmus Haworth	A 1891*† Professor of Geology and Mineralogy, University of Kansas	Lawrence, Kan.
Henrietta Henderson (Mrs Harry Ashton Roberts)	U 1900	Pocatello, Ida.
Chester Henry Heuser	U 1908 Austin Teaching Fellow, Harvard Medical School	Boston, Mass.
Burritt Howell Hill	U 1894 Assistant Cashier, First National Bank	Neodesha, Kan.
Edmund John Hirschler	U 1901 Instructor in Mathematics and Physics, Central Mennonite College	Bluffton, Ohio
Francis Marion Hoad (Deceased 1909)	U 1902	
William Christian Hoad	U 1898 Professor of Civil Engineering, University of Kansas	Lawrence, Kan.
Robert Lee Hoff	U 1894 Director of Science, Cotner University	Lincoln, Neb.
Charles Hoffman	U 1909 Fellow in Industrial Research, University of Pittsburgh	Pittsburgh, Pa.
George Jussen Hood	U 1902 Associate Professor of Mechanical Drawing, University of Kansas	Lawrence, Kan.
Charles Warren Hooper	U 1911 Medical Student, Johns Hopkins University	Baltimore, Md.
Ross Hopkins	U 1899 Physician	St. Louis, Mo.
Roy Hoskins	U 1905 Professor of Physiology, Starling Medical School	Columbus, Ohio
George Howard Hoxie	F 1904* Physician	Kansas City, Mo.
Albert Kemp Hubbard	F 1901 (Yale G 1901) City Engineer	Alva, Okla.
Samuel John Hunter	F 1900*† Professor of Entomology, University of Kansas	Lawrence, Kan.
Ida Henrietta Hyde	F 1899* Professor of Physiology, University of Kansas	Lawrence, Kan.

Henry Louis Jackson	F 1910*	Lawrence, Kan
Assistant Professor of Chemistry, University of Kansas		
Philip Charles Jeans	U 1904	Hillsboro, Ohio
Physician		
Clarence Anthony Johnson	F 1909 (Nebraska U 1906)	Lawrence, Kan
Instructor in Electrical Engineering, University of Kansas		
Wilbur Howden Judy	U 1910	Ottawa, Kan
Mechanical Engineer		
Walter John Kackley	U 1908	Kansas City, Mo
Draftsman, Kansas City Terminal Railway Company		
Paul Hugo Isador Kahl	F 1896	Pittsburgh, Pa
Curator of Entomology, Carnegie Museum		
George Frederick Kay	F 1904* (Iowa F 1908; Chicago G 1903)	
Professor of Geology, University of Iowa [Iowa City, Ia.		
Vernon Lyman Kellogg	G 1890*† (Stanford CF 1902)	Palo Alto, Cal.
Professor of Entomology, Leland Stanford Junior University		
Leslie Alva Kenoyer	G 1908	Toledo, Ia.
Professor of Biology, Leander Clark College		
Frederick Edward Kester	F 1909* (Cornell G 1899; Ohio F 1899)	
Professor of Physics, University of Kansas [Lawrence, Kan.		
Theron James Kinnear	U 1902	Springfield, Ill.
Physician		
Henry Adolph Kohman	U 1908	Pittsburgh, Pa.
Fellow in Industrial Research, University of Pittsburgh		
Charles August Kraus	U 1896*	Boston, Mass.
Research Associate in Chemistry, Massachusetts Institute of Technology		
Oscar M Kuchs	U 1905	Tooele, Utah
Metallurgist, Anaconda Copper Company		
William John Lank	U 1908	Clovis, N. M.
Engineer, Atchison Topeka and Santa Fe Railway Company		
Albert Preisach Learned	U 1910	Lawrence, Kan.
Transit-man for Cherryvale, Oklahoma and Texas Railway		
Victor Elmer Lednicky	U 1911	La Paz, Honduras
Mining Engineer, Clanton Mines Company		
Otto L Lewis	U 1904	Indianapolis, Ind.
Foreman, Nordyke and Marmon Company		
Henry Richardson Linville	U 1893*	Jamaica, L. I., N. Y.
Teacher of Biology, High School		
William Newton Logan	A 1902*	Agricultural College, Miss.
Professor of Geology, Agricultural and Mechanical College		
John Harper Long	A 1890*† (Northwestern CF 1906)	Chicago, Ill.
Professor of Chemistry, Northwestern University Medical School [Ill.		
Verne Vere Long	U 1910	Kansas City, Mo.
Draftsman, Worley and Black, Engineers		
Cleveland Scott Loper	U 1910	Topeka, Kan.
Instructor of Engineering, Washburn College		

Charles Winslow Lusk	U 1908	Kansas City, Mo.
Sanitary Engineer, Burns and McDonnell, Engineers		
Lloyd Alonzo Lowther	U 1894	Emporia, Kan.
Superintendent of City Schools		
George Pierce Mackenzie	U 1907	Philadelphia, Pa.
Engineer Testing Department, General Electric Company		
John Francis Mackey	F 1910	Pittsburgh, Pa.
Fellow in Industrial Research, Univertisy of Pittsburgh		
John Dice MacLaren	A 1890*	Portland, Ore.
Professor of Physiology, Medical School, University of Oregon		
Frank Olin Marvin	GF 1890*†	Lawrence, Kan.
Dean, School of Engineering, University of Kansas		
Alberta Cory Matthews (Mrs Fred E Matthews)	U 1900	New York City
Virgil McCarty	U 1910	Rosedale, Kan.
Interne, Eleanor Taylor Bell Memorial Hospital		
Clarence Erwin McClung	U 1896*	Lawrence, Kan.
Professor of Zoology, University of Kansas		
Harry Clifford McClure	U 1908	Toledo, Ohio
Engineer, Board of Education, Department of Architecture		
Burton McCollum	U 1902	Washington, D. C.
Physicist, United States Bureau of Standards		
Elmer Verner McCollum	U 1902* (Wisconsin F 1907)	Madison, Wis.
Associate Professor of Agricultural Chemistry, University of Wisconsin		
David Charles McConoughuy	U 1906	Manila, P. I.
Civil Engineer, United States Government		
Charles Stone McFarland	U 1890*	Burnside, La.
General Manager, Miles Planting and Manufacturing Company		
David Ford McFarland	U 1899* (Yale F 1909)	Urbana, Ill.
Assistant Professor of Chemistry, University of Illinois		
Hazel Hope McGregor	F 1910 (Illinois G 1909)	Lawrence, Kan.
Instructor in Mathematics, University of Kansas		
Anna Louise McKinnon (Mrs Edward Fitch)	A 1894	Clinton, N. Y.
Orange Edward McMeans	F 1900	Indianapolis, Ind.
Engineer and Architect, McMeans and Tripp		
Charles Leonard McWhorter	U 1911	Washington, D. C.
Junior Topographer, United States Geological Survey.		
Grace Medes	U 1904	Kansas City, Mo.
Walter Joseph Meek	U 1902*	Madison, Wis.
Assistant Professor of Physiology, University of Wisconsin		
Alfred Moyer Meyers	U 1898	Kansas City, Mo.
Architectural Engineer, Kansas City Structural Steel Company		
Benjamin Leroy Miller	U 1896*†	South Bethlehem, Pa.
Professor of Geology, Lehigh University		
Ephraim Miller	CF 1890*†	Pasadena, Cal.
Emeritus Professor of Mathematics, University of Kansas		

Roy Lee Moodie	U 1905*	Lawrence, Kan.
Assistant Professor of Zoology, University of Kansas		
Virgil Holland Moon	U 1911	Chicago, Ill.
Medical Student, Rush Medical College		
Bessie Eleanor (Grove) Morrison	U 1897 (Washington CG 1907)	Seattle,
(Mrs Frank Marion Morrison)	-	[Wash.
Lawrence Norton Morscher	G 1901	Lawrence, Kan.
Inventor		
Eleanor Morse	U 1905	
(Deceased 1910)		
Edward Charles Murphy	F 1890*	Berkeley, Cal
Hydraulic Engineer, United States Geological Survey		
George Alfred Neal, Jr	U 1910	Savannah, Ga.
Engineer, Savannah Gas Company		
Ben Harry Nicolet	U 1909	New Haven, Conn.
Graduate Student, Yale University		
Nadine Nowlin	U 1903	Lawrence, Kan.
Instructor in Zoology, University of Kansas		
Edward Newton Noyes	U 1906	Dallas, Tex.
Bridge Engineer, Dallas-Oak Cliff Viaduct		
Ellis Bradford Noyes	A 1894	Portsmouth, Va.
Chief Draftsman, Department of Public Works, United States Navy Yard		
Floyd Price Ogden	U 1911	Kansas City, Mo.
In Engineering Department, Missouri and Kansas Telephone Company		
Fred Williams Owens	U 1901 (Cornell F 1908)	Ithaca, N. Y.
Instructor in Mathematics, Cornell University		
Helen Barten (Brewster) Owens	G 1902	Ithaca, N. Y.
(Mrs Fred William Owens)		
Walter Kiefer Palmer	F 1897	Kansas City, Mo.
Consulting Engineer		
Paul Ross Parmelee	U 1909	Pittsburgh, Pa.
Fellow, University of Pittsburgh		
Percival John Parrott	U 1897*	Geneva, N. Y.
Entomologist, New York Experiment Station		
Frank Dewey Phillips	U 1907	Schenectady, N. Y.
Designing Engineer, Testing Department, General Electric Company		
Edith Pinney	G 1910	Bryn Mawr, Pa.
Travelling Fellow in Zoology, Bryn Mawr College		
Arthur Dunn Pitcher	U 1905	Hanover, N. H.
Assistant Professor of Mathematics, Dartmouth College		
Robert Spencer Pond	G 1910	Athens, Ga.
Instructor in Mathematics, University of Georgia		
Fred Baker Porter	U 1902*	Atlanta, Ga.
Chemist, Swift Fertilizer Works		
Roland E Porter	U 1904	
(Deceased 1907)		

Roy Albert Porterfield	U 1910	Baldwin, Kan.
Instructor in Engineering, Baker University		
Fred Cecil Powell	U 1909	Macksville, Kan.
	Physician.	
Leonard Pulliam	U 1909	Lyons, Kan.
	In Business	
Effie Pyle	U 1900	Haviland, Kan.
(Mrs Jesse Fisher)	Wife of Methodist Missionary	
Lawrence Vincent Redman	G 1910	Lawrence, Kan.
Fellow in Industrial Research, University of Kansas		
Martin Everett Rice	G 1892*	Lawrence, Kan.
Associate Professor of Physics and Engineering, University of Kansas		
Hugh Tudor Richards	A 1896	Los Angeles, Cal.
Civil Engineer, Rio Colorado Railway and Navigation Company		
Arthur Osborne Ridgway	U 1892	Denver, Col.
Assistant Chief Engineer, Denver and Rio Grande Railway		
Albert Stanley Riffe	A 1890	
(Deceased 1908)		
Frank Riffe	A 1890	San Francisco, Cal.
Manager Iron and Pipe Department, Dunham, Corrigan and Hayden		
Elmer Samuel Riggs	G 1896 (Chicago G 1903)	Chicago, Ill.
Assistant Curator, Field Museum of Natural History		
Henry Earle Riggs	A 1899*	Ann Arbor, Mich.
Consulting Engineer, Riggs and Sherman		
Frank Ringer	U 1893	St. Louis, Mo.
Assistant Chief Engineer, Missouri, Kansas and Texas Railway		
Hattie (Fenner) Rinker	U 1910	Kansas City, Mo.
(Mrs Robert L Rinker)		
Herbert Fuller Roberts	A 1901*	Manhattan, Kan.
Professor of Botany, Kansas State Agricultural College		
Henrietta (Henderson) Roberts	U 1900	Pocatello, Ida.
(Mrs Harry Ashton Roberts)		
William Rees Robertson	G 1907	Cambridge, Mass.
Austin Fellow, Harvard University		
Austin Flint Rogers	U 1898*	Palo Alto, Cal.
Associate Professor of Mineralogy, Leland Stanford Junior University		
John Henry Ronnebaum	U 1900	
(Deceased 1907)		
Rial Catlin Rose	U 1906	Torreón, Mex.
Biologist, Continental Rubber Company		
Irvin R Rothrock	U 1894	Baltimore, Md.
Chemist, Armour Packing Company		
Frank Finch Rupert	U 1906	Lawrence, Kan.
Instructor in Chemistry, University of Kansas		
Abraham John Ruth	U 1900	Cananea, Sonora, Mex.
Assistant Engineer, Cananea Consolidated Copper Company		

- Charles Emerson Sanborn G 1904 Stillwater, Okla.
State Entomologist, Agricultural and Mechanical College
- Lucius Elmer Sayre F 1896† Lawrence, Kan.
Dean, School of Pharmacy, University of Kansas
- Richard Everingham Scammon U 1906* Minneapolis, Minn.
Assistant Professor of Anatomy, University of Minnesota
- Theophilus H Scheffer U 1895 Washington, D. C.
Scientific Expert, Biological Survey
- Walter Red Schreiner U 1911 Washington, D. C.
Junior Topographer, United States Geological Survey
- Elias Howard Sellards U 1890*† Tallahassee, Fla.
State Geologist
- Andrew Watson Sellards U 1902 Baltimore, Md.
Assistant Resident Physician, Johns Hopkins Hospital
- George Carl Shaad F 1910 Lawrence, Kan.
Professor of Electrical Engineering, University of Kansas
- Millard King Shaler A 1910* Kinshasa, Congo Belge, Africa
Mining Engineer for Société Internationale Forestière et Minière du Congo
- Alwin W Shepard F 1893 Buffalo, N. Y.
Teacher of Science, Buffalo Public Schools
- James Abraham Garfield Shirk G 1905* Ottawa, Kan.
Professor of Physics, Ottawa University
- Ralph Clement Shuey U 1907 Pittsburgh, Pa.
Fellow in Industrial Research, University of Pittsburgh
- Edwin Emery Slosson U 1890*† New York City
Literary Editor, The Independent
- Delbert O Smith U 1911 Rosedale, Kan.
Medical Student, University of Kansas
- Frank Edwin Smith U 1910 St. Louis, Mo.
Designer, Buebel and Wells, Engineers
- Roy Kenneth Smith G 1909 Sua Mot Kol Seoal, Korea
Physician to Hospital
- Francis Huntington Snow CF 1890*†
(Deceased 1908)
- William Appeltson Snow U 1891
(Deceased 1899)
- Orin Fletcher Stafford U 1899* Eugene, Ore.
Professor of Chemistry, University of Oregon
- William Alfred Starin U 1906 Columbus, Ohio
Assistant Professor of Bacteriology, Ohio State University
- Amel E Stegeman U 1910 Bakersfield, Cal.
Engineer, The Associated Oil Company
- Charles Morgan Sterling F 1908 Lawrence, Kan.
Assistant Professor of Pharmacognacy, University of Kansas
- William Chase Stevens F 1903*† Lawrence, Kan.
Professor of Botany, University of Kansas

Alban Stewart	G 1898*	Madison, Wis.
Instructor in Botany, University of Wisconsin		
Bennett Merriman Stigall	U 1901	Warrensburg, Mo.
Professor of Biology and Nature Study, State Normal School		
Howard Stough	G 1909	Clay Center, Kan.
Teacher of Science, High School		
Mervin Tubman Sudler	F 1904* (Cornell F 1903)	Lawrence, Kan.
Associate Dean of Medical School, University of Kansas		
Walter Stanborough Sutton	U 1899 (Columbia CF 1902)	Rosedale, Kan.
Associate Professor of Surgery, University of Kansas Medical School		
Edgar Lemuel Tague	G 1910	Topeka, Kan.
Professor of Chemistry, Washburn College, Topeka, Kan		
Martha Alice Thompson	U 1892	Kansas City, Kan.
Instructor in Latin, High School		
Joel Rex Thorpe	U 1907	Milwaukee, Wis.
Draftsman, Steam Turbine Design Department, Allis-Chalmers Company		
Ernest Roy Tibbetts	U 1910	Lawrence, Kan.
Senior Student, University of Kansas		
Edwin Ward Tillotson	F 1910* (Yale U 1906)	Lawrence, Kan.
Fellow in Industrial Research, University of Kansas		
James Edward Todd	F 1907*†	Lawrence, Kan.
Assistant Professor of Geology, University of Kansas		
Alanson Niles Topping	U 1894	Lafayette, Ind.
Associate Professor of Electrical Engineering, Purdue University		
William Henry Twenhofel	F 1910 (Yale U 1908)	Lawrence, Kan.
Assistant Professor of Geology, University of Kansas		
John Nicholas Van der Vries	F 1902*	Lawrence, Kan.
Associate Professor of Mathematics, University of Kansas		
Will Elbert Vawter	U 1911	Lawrence, Kan.
Fellow in Industrial Research, University of Kansas		
George Wagner	U 1899* (Wisconsin CF 1907)	Madison, Wis.
Assistant Professor of Zoology, University of Wisconsin		
Perley Walker	F 1905 (Cornell G 1901)	Lawrence, Kan.
Professor of Mechanical Engineering, University of Kansas		
Lalla Viola Walling	G 1907	Lawrence, Kan.
Instructor in Physiology, University of Kansas		
Peter John Wedel	U 1895	Newton, Kan.
Professor of Science, Bethel College		
Ernest Edward Weibel	U 1911	Washington, D. C.
Laboratory Assistant, U. S. Bureau of Standards.		
George Francis Weida	A 1891*	Gambier, Ohio
Professor of Chemistry, Kenyon College		
Edward Roy Weidlein	U 1909	Lawrence, Kan.
Stübbs-Grenfell Fellow in Chemistry, University of Kansas		
Archie James Weith	U 1908	Lawrence, Kan.
Fellow in Industrial Research, University of Kansas		

David Henry Wenrich	U 1911	Lawrence, Kan.
Fellow in Zoology, University of Kansas		
August Ludwig Paul Wernicke	F 1909*	Cincinnati, O.
Investigator and Author		
Wilfred Forest Wheeler	U 1908	
(Deceased 1909)		
Edward Ambrose White	A 1909	Kansas City, Kan.
City Chemist, Teacher in High School		
Edward Albert White	U 1908	Lawrence, Kan.
Instructor in Mechanical Engineering, University of Kansas		
Marion Ballantyne White	F 1910 (Chicago G 1909)	Lawrence, Kan.
Assistant Professor of Mathematics, University of Kansas		
Bruce Williams	U 1906	Webb City, Mo.
Chemist, The Waring Laboratories		
Francis Xavier Williams	F 1909 (Stanford G 1908)	Lawrence, Kan.
Assistant Curator in Entomology, University of Kansas		
Kersey George Williams	U 1907	Little Rock, Ark.
Resident Engineer, Rock Island Railway		
Samuel Wendell Williston	F 1893*† (Chicago CF 1903)	Chicago, Ill.
Professor of Paleontology, University of Chicago		
Josie Wilson	U 1893	Sioux Falls, S. D.
Teacher, High School		
John Stephen Worley	U 1903	Kansas City, Mo.
Engineer, The J. S. Worley Company		
Alexander Ririe Young	U 1905	Topeka, Kan.
City Engineer		
Clifford Caudy Young	U 1910	Lawrence, Kan.
Chemist for State Water Survey, University of Kansas		
Clinton Mason Young	F 1907*	Lawrence, Kan.
Associate Professor of Mining, University of Kansas		
John Wesley Young	F 1910* (Cornell G 1901)	Hanover, N. H.
Head of Department of Mathematics, Dartmouth College		
Adolph Zieffe	F 1909	Fargo, N. D.
Professor of Pharmacy, State Agricultural College		

YALE CHAPTER

YALE UNIVERSITY, NEW HAVEN, CONNECTICUT

Charter Dated March 8, 1895

Chapter Installed March 29, 1895

HISTORICAL SKETCH

The Yale Chapter, organized in 1895, was a direct result of a movement on the part of the senior class (1895) of the Sheffield Scientific School for a society which should stand for high scholarship in science. The matter had been discussed annually for several years during which many plans were considered, when finally the above class with the approval of the faculty, voted to establish a chapter of Sigma Xi. Professor Henry S. Williams of the Yale Chapter, formerly of Cornell, and one of the founders of the parent chapter, deserves special mention for his valuable advice and help to the organizers. The Academic Department, the Medical School, and the Forest School, share with the Sheffield Scientific School in the election of members and the management of the Chapter.

In its development at Yale, the society has not held meetings for the reading of strictly technical papers. These are left to the various research clubs, such as the Physical, Chemical, Biological, Mathematical, and Engineers' clubs. The field of Sigma Xi here is to encourage scientific work, not to do it. It accomplishes this by papers and lectures of general scientific interest, by discussion of matters common to all investigators, and by social intercourse of its members. As a fraternity of scientific workers and as an honorary scholarship society, a real want of the university life is supplied. The part played by the undergraduates is necessarily limited: elected near the end of their college course, attending a few meetings, becoming a little better acquainted with their instructors, wearing the society emblem, they enter upon their life work stimulated in some degree at least by the traditions and aims of Sigma Xi.

PUBLICATIONS

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OFFICERS FOR 1911-12

President.....	JOSEPH BARRELL
Vice-President.....	YANDELL HENDERSON
Recording Secretary.....	FREDERICK SHAND GOUCHER
Corresponding Secretary.....	JOSEPH WICKHAM ROE
Treasurer.....	HERBERT LEE SEWARD
Councilor.....	JOHN CLAYTON TRACY

MEMBERSHIP ROLL

Alva Blanchard Adams	U 1896 Lawyer	Pueblo, Col.
Ernest Kempton Adams (Deceased 1904)	U 1896	
Harry Louis Abramson	U 1911 Interne, Rhode Island Hospital	Providence, R. I.
Harry Leslie Agard	F 1911 Instructor in Mathematics, Williams College	Williamstown, Mass.
Hubert Hillary Sufferin Aimes	G 1898 Financier	West Haven, Conn.
Grosvenor Noyes Allen	U 1895 First Vice-President, Oneida Community, Limited	Kenwood, Oneida, N. Y.
Arthur Nathaniel Alling	F 1908† Clinical Professor of Ophthalmology, Yale University	New Haven, Conn.
Joseph Alfred Ambler	U 1910 Assistant in Chemistry, Sheffield Scientific School	New Haven, Conn.
Fred Elijah Ames	G 1906 U. S. Assistant District Forester	Portland, Ore.
William Gilbert Anderson	F 1902 Director Yale Gymnasium, Yale University	New Haven, Conn.
Irving Atwater Andrew	U 1903 In Business	Orange, Conn.
Roswell Parker Angier	F 1907 Assistant Professor of Psychology, Yale University	New Haven, Conn.
Harry Sears Arnold	F 1911 Instructor in Pathology, Yale University	New Haven, Conn.
William Travis Ayer	U 1903 Superintendent, McKiernan-Terry Drill Company	Dover, N. J.
Arthur Whittemore Bacon	U 1903 Hall and Bacon, Civil and Consulting Engineers	New Britain, Conn.
Edward Monroe Bailey, Jr	G 1910 Chemist, Connecticut Agricultural Experiment Station	New Haven, Conn.
George Alfred Baitsell	G 1911 Graduate Assistant in Biology, Yale University	New Haven, Conn.
John Alexander Baker	U 1907 Todmorden Hall, Wallingford, Pa.	
John Mayhew Baldwin	U 1909 Tank Gauging Engineer, The Texas Company	Houston, Tex.
Seth Weaver Baldwin	U 1904 Claim Attorney, New York, New Haven and Hartford Railroad Company	New Haven, Conn.

Stanley Crittenden Ball	U 1911	New Haven, Conn.
Assistant in Biology, Yale University		
Joseph Austen Bancroft	U 1904	Montreal, Canada
Assistant Professor of Geology, McGill University		
Ida Barney	G 1911	Winter Park, Fla.
Acting Professor of Mathematics, Rollins College		
Samuel Eben Barney	CF 1895	New Haven, Conn.
Assistant Professor of Civil Engineering, Yale University		
Charles Gardiner Barnum	G 1910	New York City
Interne, Roosevelt Hospital		
Joseph Barrell	F 1900*	New Haven, Conn.
Professor of Structural Geology, Yale University		
Walter Ransom Barrows	G 1911	New Haven, Conn.
Department of Geology		
William Raymond Barss	U 1909	New Haven, Conn.
Graduate Student in Physics, Yale College		
Charles Joseph Bartlett	F 1897*	New Haven, Conn.
Professor of Pathology, Yale Medical School		
Clifford Whitman Bates	U 1905	New Haven, Conn.
Instructor in Electricity, Yale University		
Frederick Elijah Beach	CF 1895*	New Haven, Conn.
Assistant Professor of Physics, Yale University		
Charles Thomas Beach	U 1905	Hartford, Conn.
Physician		
Harold Kenney Beach	U 1904	Hastings-on-Hudson, N. Y.
Engineer, National Conduit and Cable Company		
George Elbert Beck	G 1907	New York City
Educational Director, Young Men's Christian Association		
Fredrik Ferdinand Woods Beckman	G 1909	Finspong, Sweden
Government Forester		
Silas Palmer Beebe	G 1903*	New York City
Professor of Therapeutics, Cornell University Medical College		
Charles Emerson Beecher	F 1897†	
(Deceased 1904)		
F W Beinecke	U 1909	New York City
Civil Engineer		
Paul Beck Belin	U 1895	Scranton, Pa.
General Manager, Scranton Lace Curtain Company		
Horace Doolittle Bellis	G 1907	Trenton, N. J.
Physician		
Stanley Rossiter Benedict	G 1907	New York City
Assistant Professor of Chemical Pathology, Cornell University Medical School		
John Bentley, Jr	G 1906	Ithaca, N. Y.
Forester		
Harry Van der Veer Bergen	U 1895	Washington, D. C.
Research Associate, Carnegie Institution		

Joseph Bernstein	U 1904	Boston, Mass.
Special Track Work Engineer, Boston Electric Railway Company		
Anson Gardner Betts	U 1897	North Troy, N. Y.
Chemist and Metallurgist		
Forrest B Beyer	U 1908	Manila, P. I.
Chemist, Bureau of Science		
Earl Gordon Bill	F 1908	Lafayette, Ind.
Instructor in Mathematics, Purdue University		
Harold Crusius Bird	U 1908	Chester, Pa.
Assistant Professor of Engineering, Pennsylvania Military College		
Avard Longley Bishop	F 1906	New Haven, Conn.
Assistant Professor of Geography and Commerce, Yale University		
Carlton Thomas Bishop	U 1903	New Haven, Conn.
Instructor in Civil Engineering, Sheffield Scientific School		
Oliver F Bishop	U 1909	New Haven, Conn.
Government Forest Assistant		
Arthur Douglas Bissell, Jr	U 1906	Buffalo, N. Y.
Salesman, Rogers Brown and Company		
Leslie Dayton Bissell	G 1896	Munich, Germany
Principal, The Colt School for Boys		
Frank Laughton Black	U 1904	New Haven, Conn.
Resident Engineer, New York, New Haven and Hartford Railroad		
Clarence Moore Blair	G 1904	New Haven, Conn.
Consulting Engineer		
Eugene Maurice Blake	F 1906	New Haven, Conn.
Clinical Instructor in Ophthalmology, Yale University		
John Charles Blake	G 1903*	College Station, Tex.
Teacher		
Alice Frances Blood	G 1910	Boston, Mass.
Assistant Professor of Chemistry, Simmons College		
Rufus Frank Blount	U 1911	Holyoke, Mass.
Chemist, Hampden Glazed Paper and Card Company		
George Blumer	F 1906	New Haven, Conn.
Dean of Yale Medical School		
Bertram Borden Boltwood	G 1896*†	New Haven, Conn.
Professor of Radiochemistry, Yale University		
Sydney Cecil Borg	U 1895	New York City
Simon Borg and Company		
Rowland Sherwood Bosworth	U 1908	Canonsburg, Pa.
Chemist, Standard Chemical Company		
Isaiah Bowman	F 1906	New Haven, Conn.
Assistant Professor of Geography, Yale College		
Frederic Quintard Boyer	U 1908	New Haven, Conn.
Instructor in Mechanical Engineering, Sheffield Scientific School		
Harold Cornelius Bradley	F 1903 (Wisconsin CF 1907)	Madison, Wis.
Assistant Professor of Physical Chemistry, University of Wisconsin		

Henry Franklin Bradley	U 1910 Metallurgist	Salt Lake City, Utah
Walter Minor Bradley	G 1898 Instructor in Mineralogy, Yale University	New Haven, Conn.
Edward Arthur Bredt	U 1897 Engineer, American Telephone and Telegraph Company	New York City
Zenas Marston Briggs	U 1898 Engineer, Lehigh Valley Railway	New York City
Howard Stanley Bristol	U 1902 Assistant Director, Forest Products Laboratory	Madison, Wis.
Wilton Everett Britton	F 1902* State Entomologist, Agricultural Experiment Station	New Haven, Conn.
Howard Logan Bronson	U 1900 Professor of Physics, Dalhousie University	Halifax, N. S.
Chester Kingsley Brooks	U 1906 Engineer, National Malleable Castings Company	Cleveland, Ohio
Albert Turney Brown	U 1902 Sanitary Engineering, Whitehall Plumbing Company, New York	Fairfield, Conn.
Charles Barto Brown	CF 1895 Professor of Railroad Engineering, University of Maine	Orono, Me.
Earle Wayne Brown	G 1903 Assistant Superintendent, National Tube Company	Lorain, Ohio
Ernest William Brown	F 1908*† Professor of Mathematics, Yale University	New Haven, Conn.
James Brown	F 1905 Professor of Chemistry, Illinois College	Jacksonville, Ill.
Raymond Lester Brown	U 1908 Sales Engineer, General Electric Company	Philadelphia, Pa.
Theodore Henry Brown	U 1910 Graduate Student, Yale University	New Haven, Conn.
Edward Earle Brownell	U 1895 Agriculture	San Francisco, Cal.
Philip Embury Browning	F 1895*† Assistant Professor of Chemistry, Yale University	New Haven, Conn.
Donald Bruce	U 1906 Forest Assistant, U. S. Forest Service	Coeur d'Alene, Ida.
Kirk Bryan	G 1911	Albuquerque, N. M.
Ralph Clement Bryant	F 1908 Professor of Lumbering, Yale Forest School	New Haven, Conn.
Henry Andrews Bumstead	CF 1895*† Professor of Physics, Director of Sloane Physical Laboratory, Yale	New Haven, Conn.
Henry Edward Burgess	U 1904 With W. T. Fields Company Investment Securities	New Haven, Conn.
Horace Thomas Burgess	F 1908 Instructor in Mathematics, University of Wisconsin	Madison, Wis.
Rollin Hillary Burr (Deceased 1904)	G 1904	

Jacques Louis Buttner	G 1909	New Haven, Conn.
Physician, Clinical Instructor, Yale University		
Edward Herbert Cameron	G 1905	New Haven, Conn.
Assistant Professor of Psychology, Yale University		
Walter Scott Cameron	G 1898	Southampton, L. I., N. Y.
Louis J Campbell	U 1910	Youngstown, Ohio
Secretary to the President, Youngstown Sheet and Tube Company		
William Joseph Canada	U 1902	Denver, Col.
Engineer, Rocky Mountain Fire Underwriters Association		
Frederic James Carnell (Deceased 1902)	U 1900	
Samuel Winthrop Case	U 1911	New Haven, Conn.
Graduate Student, Yale University		
William Emanuel Cederberg	U 1902	Rock Island, Ill.
Professor of Mathematics, Augustana College		
Aimes Reading Chamberlain	U 1901	Maplewood, N. J.
Physician		
Guy Louis Chamberlin	U 1905	Chicago, Ill.
Engineer		
Robert Morse Chamberlin (Deceased 1901)	G 1901	
Franklin Jerome Champlin	U 1911	Schenectady, N. Y.
Student Engineer, General Electric Company		
Perley Bickfad Chandler (Deceased 1908)	G 1908	
Tatsung Chang	U 1909	Koshing, Chekiang, China
Herman Haupt Chapman	F 1908	New Haven, Conn.
Professor of Forestry, Yale University		
Arsen Nishan Charbajian	U 1911	New Haven, Conn.
Graduate Student in Physics, Yale University		
Frederick Lincoln Chase	F 1896*†	New Haven, Conn.
Assistant Astronomer, Yale University		
Alfred Knight Chittenden	U 1900	Washington, D. C.
Forester, Indian Service, Department of the Interior		
Samuel Hopkins Clapp	G 1905	Pawtucket, R. I.
Mercantile Business		
Eliot Round Clark	U 1903	Baltimore, Md.
Instructor in Anatomy, Johns Hopkins Medical School		
Herdman Fitzgerald Cleland	G 1900*	Williamstown, Mass.
Professor of Geology and Mineralogy, Williams College		
Harry Trumbull Clifton	U 1895	Pasadena, Cal.
Instructor in Physics, High School		
Charles Francis Clise	U 1911	Seattle, Wash.
Insurance Agent, E. A. Short and Company		
Ralph Oakley Clock	U 1901	New York City
Physician, Instructor in Obstetrics, New York Post-Graduate Medical School		

Oliver Eugene Closson	G 1905	Detroit, Mich.
Research Pharmacologist, Parke Davis and Company		
Frederick Sears Coe	U 1899	Newark, N. J.
Engineer, James A. Coe and Company		
Wesley Roswell Coe	F 1898*†	New Haven, Conn.
Professor of Biology, Yale University		
John Daniel Coffman	G 1909	Weaverville, Cal.
Deputy Forester, U. S. Forest Service		
Augustus Coit	G 1898	
(Deceased 1909)		
Leon Jacob Cole	F 1908	Madison, Wis.
Associate Professor of Experimental Breeding, University of Wisconsin		
Clarence Lyman Collens	U 1896	Cleveland, Ohio
President, Reliance Electric and Engineering Company		
John Edward Collins	U 1900	Weirton, Hancock Co., W. Va.
Chief Engineer, Phillips Sheet and Tin Plate Company		
Roger Baldwin Colton	U 1908	Fort Barrancas, Fla.
Second Lieutenant, U. S. Army, Coast Artillery Corps		
Charles William Comfort, Jr	U 1907	New Haven, Conn.
Student, Yale Medical School		
William James Comstock	F 1897*	New Haven, Conn.
Instructor in Organic Chemistry, Yale University		
Joseph Warren Cone	U 1905	Greenwich, Conn.
Civil Engineer		
Henry H Conover	G 1903	Baltimore, Md.
Retired		
George Macfeely Conwell	F 1910	New Haven, Conn.
Instructor in Mathematics, Sheffield Scientific School		
Charles Montague Cooke, Jr	G 1899	Honolulu, H. I.
Curator, Bernice Bishop Museum		
Charles Osmond Cooke	G 1905	Providence, R. I.
Physician		
Charlton Dows Cooksey	F 1908	New Haven, Conn.
Instructor in Physics, Yale University		
Frank Lawrence Cooper	F 1909	New Haven, Conn.
Instructor in Physics, Sheffield Scientific School		
Darrah Corbet	U 1905	Seattle, Wash.
Salesman, Charles C. Moore and Company		
William Wakefield Corbet	U 1900 (Columbia U 1903)	Brookville, Pa.
Engineering Salesman, Charles C. Moore and Company		
Donald John Cowling	G 1906	Northfield, Minn.
President, Carleton College		
William Bronson Cramer	U 1902	Globe, Ariz.
Chemist, Old Dominion Copper Company		
Robert William Curtis	F 1904* (Kansas G 1904)	New York City
Instructor in Chemistry, College of the City of New York		

- David Raymond Curtiss G 1905 (Northwestern CF 1906) Evanston,
Professor of Mathematics, Northwestern University [Ill.]
- Paul Curts U 1905 Middletown, Conn.
Instructor in German, Wesleyan University
- William Dick Cutter U 1899 Augusta, Ga.
Physician, Instructor in Physiology, University of Georgia
- Haroutune Mugurditch Dadourian U 1903 New Haven, Conn.
Instructor in Physics, Yale University
- Samuel Trask Dana G 1906 Washington, D. C.
Assistant Chief of Silvics, U. S. Forest Service
- Archibald Lamant Daniels, Jr G 1911 New Haven, Conn.
Assistant in Mathematics, Sheffield Scientific School
- William Darrach U 1897* New York City
Instructor in Surgery, Columbia University
- John Staige Davis U 1895 Baltimore, Md.
Instructor in Surgery, Johns Hopkins Medical School
- Vahram Edward Davoud G 1903 Provo, Utah
E. E. Telluride Power Company
- Arthur Louis Day F 1896*† Washington, D. C.
Director, Geophysical Laboratory, Carnegie Institution
- Arthur Lyman Dean F 1902* New Haven, Conn.
Assistant Professor of Industrial Chemistry, Sheffield Scientific School
- Willard Parker Dean U 1902
(Deceased 1906)
- Willard Joseph Denno U 1903 New York City
Physician, Department of Health
- Allen Ross Diefendorf G 1904*† New Haven, Conn.
Lecturer in Psychiatry, Yale Medical School
- Charles F Dike, Jr U 1904 Crystal Lake, Ill.
Engineer
- Edward Lewis Dodd G 1904* (Iowa F 1905) Austin, Tex.
Instructor in Mathematics, University of Texas
- Frederick F Dodd U 1905 New York City
Instructor in History, Ethical Culture School
- Arthur Wayland Dox G 1908 (Pennsylvania U 1904) Ames, Ia.
Chemist, Iowa Agricultural Experiment Station, Iowa State College
- Walter Remy Dray U 1908 Chicago, Ill.
Salesman, Fairbanks Morse and Company
- Arthur H Driske U 1910 Roxbury, Mass.
- J Andrew Drushel U 1905 St. Louis, Mo.
Professor of Geology, Harris Teachers' College
- William Allen Drushel U 1905 New Haven, Conn.
Instructor in Chemistry, Yale College
- Charles Wales Drysdale G 1911 Ottawa, Canada
Assistant Geologist, Canadian Geological Survey
- Samuel William Dudley U 1900 Wilmerding, Pa.
Assistant Chief Engineer, Westinghouse Air Brake Company

William Waddell Duke	G 1904 Physician	Kansas City, Mo.
Edward Lee Dummer	U 1907 With American Hosiery Company	New Britain, Conn.
William Wheeler Duncan	U 1902 Head Chemist, Hard Rubber Company	Watertown, Mass.
Wesley Earl Dunkle	U 1908 Engineer, Beatson Copper Company	La Touche, Alaska
Herbert William Eales	U 1904 Engineer, St. Louis Office, General Electric Company	St. Louis, Mo.
George Francis Eaton	F 1898* Curator in Osteology, Peabody Museum, Yale University	New Haven, Conn.
Ernest Arthur Eddy	U 1908 Manufacturing	St. Louis, Mo.
Graham Edgar	G 1909 Adjunct Professor of Chemistry, University of	Charlottesville, Va. Virginia
George Joseph Nelson Edmondson	U 1901 Engineer, New York Central and Hudson River Railway	Rochester, N. Y.
Gaston Holcombe Edwards	G 1902 Physician and Surgeon	Orlando, Fla.
Augustus Hull Elliott	U 1904 Sales Agent, American Brake Shoe and Foundry Company	Philadelphia, Pa.
Wilson Barton Emery	U 1911 Student, Yale University	New Haven, Conn.
Harry Crawford English	U 1906 Farming	Martinsville, N. J.
Charles Rhein Essick	U 1905 Instructor in Anatomy, Johns Hopkins Medical School	Baltimore, Md.
Allan Chotard Eustis	U 1898 Physician	Abbeville, La.
Alexander William Evans	F 1895* Professor of Botany, Yale University	New Haven, Conn.
Philip Saffery Evans, Jr	U 1895 Professor of Pathology, East China Union Medical College	Nanking, China
Arthur Woolsey Ewell	U 1898* (Worcester CF 1908) Professor of Physics, Worcester Polytechnic Institute	Worcester, [Mass.]
John Henry Fahrenbach	G 1911 Assistant, U. S. Forest Service	Washington, D. C.
Charles Sherman Farnham	F 1907 Assistant Professor of Civil Engineering, Yale University	New Haven, Conn.
Charles Everett Farr	G 1902 Physician	New York City
James Linwood Fawley	U 1906 Engineer, F. M. Andrews and Company, Architects	Wissahickon, Philadelphia, Pa.
Robert Ferguson	G 1902 Physician, with Copper Queen Consolidated Mining Company	Bisbee, Ariz.

William Hastings Ferguson	U 1901 Civil Engineer	
Fred Gilbert Ferrey	U 1898 Engineer, Rhode Island Company	Providence, R. I.
Harry Burr Ferris	F 1897* Professor of Anatomy, Yale Medical School	New Haven, Conn.
Frank Richard Finch	U 1904 (Michigan U 1904) Instructor in Geometry, University of Michigan	Ann Arbor, Mich.
Morris S Fine	G 1911 Instructor, Post-Graduate Medical School	New York City
Henry Baldwin Fischer	U 1904 Lawyer	New York City
Irving Fisher	CF 1895*† Professor of Political Economy, Yale University	New Haven, Conn.
Joel Ellis Fisher, Jr	U 1911	New York City
Emanuel Charles Fleischer	U 1904 Physician	San Francisco, Cal.
William Ruthven Flint	G 1909 Professor of Chemistry, Throop Polytechnic Institute	Pasadena, Cal.
Charles Paxson Flora	U 1902 Assistant Superintendent, State Rubber Company	Watertown, Mass.
Harry Ward Foote	U 1895* Assistant Professor of Chemistry, Yale University	New Haven, Conn.
William Ebenezer Ford, Jr	U 1899* Assistant Professor of Mineralogy, Yale University	New Haven, Conn.
Frank Nugent Freeman	F 1908 Instructor in Education and Psychology, University of Chicago	Chicago, Ill.
Lewis Fox Frissell	U 1895 Physician, St. Luke's Hospital	New York City
John Marshall Gaines	G 1897 Treasurer, Remington Arms and Ammunition Company	New York City
Arthur Sullivan Gale	U 1899* Professor of Mathematics, University of Rochester	Rochester, N. Y.
Edson Fessenden Gallaudet	G 1898 President, Gallaudet Engineering Company	Norwich, Conn.
Russell Tyner Gard	G 1907 Attorney	Indianapolis, Ind.
William Smith Garnsey, Jr	U 1902 Manager, Billings Sugar Company	Billings, Mont.
William Van Nest Garretson	G 1904 Instructor in Mathematics, University of Michigan	Ann Arbor, Mich.
Albert Henry Garvin	U 1903 Superintendent, New York State Hospital for Incurable Tuberculosis	Ray Brook, N. Y.
Frederick Lamont Gates	U 1909 Medical Student, Johns Hopkins University	Baltimore, Md.
Harry Courtland Gause (Deceased 1899)	G 1899	

Isaac Wheeler Geer	C 1895	Logansport, Ind.
Superintendent, Logansport Division, Pennsylvania Lines		
Herbert Charles Gibner	U 1903	Fort McDowell, Cal.
Captain, Medical Corps, U. S. Army		
Robert Banks Gibson	U 1902* (Missouri F 1907)	Columbia, Mo.
Assistant Professor of Chemistry, University of Missouri		
William John Gies	G 1896* (Columbia CF 1903)	New York City
Professor of Biological Chemistry, Columbia University		
Harry Van Vleck Gifford	U 1900	Los Angeles, Cal.
In Business		
Josiah Allen Gilbert	CF 1895	Portland, Ore.
Physician		
Henderson Gilbert	G 1901	Harrisburg, Pa.
Henry Gilbert and Son, Hardware		
Ralph Davis Gilbert	G 1903	Boston, Mass.
With American Agricultural Chemical Company		
Charles M Gill	U 1910	St. Louis, Mo.
Department of Geography and History, Teachers' College		
Maurice Hope Givens	U 1909	Ithaca, N. Y.
Instructor in Biochemistry, Cornell Medical College		
Samuel Goldschmidt	U 1911	New Haven, Conn.
Graduate Student Assistant, Yale University		
Ralph Edward Goodwin	U 1908	East Hartford, Conn.
Transitman, New York Central and Hudson River Railway		
Lemuel Whittington Gorham	U 1906	Baltimore, Md.
Medical House Officer, Johns Hopkins Hospital		
Frederick Shand Goucher	G 1911	New Haven, Conn.
Student, Graduate School, Yale University		
Clarence Flack Graham	U 1909	Baltimore, Md.
Medical Student, Johns Hopkins Medical School		
Justin Frank Grant	U 1898	Atlanta, Ga.
Professor of Anatomy, College of Physicians and Surgeons		
Richard Frank Grant	U 1899	Cleveland, Ohio
General Counsel, M. A. Hanna and Company		
William Anthony Granville	F 1895*	Gettysburg, Pa.
President, Pennsylvania College		
Arthur Harmount Graves	U 1900	New Haven, Conn.
Assistant Professor of Botany, Sheffield Scientific School		
Henry Solon Graves	F 1901*†	Washington, D. C.
Chief Forester, U. S. Forest Service		
Carl Emil Green	U 1907	Washington Depot, Conn.
Civil Engineer		
Herbert Ernest Gregory	F 1908*†	New Haven, Conn.
Professor of Geology, Yale University		
Herbert Hartley Guest	U 1908	New Haven, Conn.
Assistant in Chemistry, Sheffield Scientific School		

- George Frederick Gundelfinger U 1906 New Haven, Conn.
Instructor in Mathematics, Sheffield Scientific School
- Frank Eugene Hale G 1902* New York City
Chemist in Charge, Mt. Prospect Laboratory
- Allan Everett Hall U 1895 Milwaukee, Wis.
Sales Engineer, Allis-Chalmers Company
- Francis Jenks Hall U 1899 Peking, China
Professor of Practice of Medicine, North China Union Medical College
- Robert William Hall U 1895* South Bethlehem, Pa.
Professor of Biology, Lehigh University
- William S H Hamilton U 1910 Schenectady, N. Y.
With General Electric Company
- George Arthur Hanford U 1898* (Syracuse F 1906) Syracuse, N. Y.
Chemist, G. C. Hanford Manufacturing Company
- Robert Whitney Hanington U 1896 Denver, Col.
Mechanical Engineer, Hendric and Bolthoff Company
- Isaac Faust Harris G 1905 Yonkers, N. Y.
Consulting Chemist, Arlington Chemical Company
- Frederick Brown Harrison U 1899 Port Deposit, Md.
Teacher, Jacob Tome Institute
- Ross Granville Harrison F 1908*† New Haven, Conn.
Professor of Comparative Anatomy, Yale University
- John Bryant Hartwell U 1900 Boston, Mass.
Physician
- Samuel Clark Harvey G 1910 New Haven, Conn.
Fellow in Pathology, Yale Medical School
- Herbert Hastings G 1898 Rochester, N. Y.
Designer, German-American Button Company
- Franke Stuart Havens U 1896 Philadelphia, Pa.
Assistant to President, Harrison Brothers Company, Incorporated
- Herbert Edwin Hawkes F 1898*† New York City
Professor of Mathematics, Columbia University
- Ralph Chipman Hawley F 1908 New Haven, Conn.
Assistant Professor of Forestry, Yale University
- William Patrick Healey U 1896 New York City
Physician
- Fred Harvey Heath G 1909 (Case F 1910) Middletown, Conn.
Instructor in Chemistry, Wesleyan University
- Earle Raymond Hedrick G 1902* (Missouri CF 1905) Columbia, Mo.
Professor of Mathematics, University of Missouri
- Angelo Heilprin F 1907*†
(Deceased 1907)
- Yandell Henderson F 1899* New Haven, Conn.
Professor of Physiology, Yale Medical School
- Herbert Thacker Herr U 1899 East Pittsburgh, Pa.
Vice-President and General Manager, Westinghouse Machine Company

William Worthington Herrick	U 1902	New York City
Instructor in Medicine, Columbia University Medical School		
Nathaniel Herz	U 1908	Lead, S. D.
Chemist, Homestake Mining Company		
Lawrence Ilsley Hewes	F 1901*	Washington, D. C.
Senior Highway Engineer, Office of Public Roads		
Donnel Foster Hewett	G 1911	Washington, D. C.
Metallurgical Engineer, U. S. Geological Survey		
Frederick William Heyl	U 1904	Laramie, Wyo.
Assistant Professor of Chemistry, University of Wyoming		
Warren Witherell Hilditch	G 1909 (Syracuse F 1909)	New York City
Chief Chemist, Dr. E. E. Smith Laboratory		
Albert Hileman	U 1903	
(Deceased 1908)		
Arthur Joseph Hill	U 1910	New Haven, Conn.
Assistant in Chemistry, Sheffield Scientific School		
Charles Grovt Hilliard	G 1902	Redlands, Cal.
Physician		
Bedford Forrest Hines	U 1902	Decherd, Tenn.
Engineering		
Edgar Clarkson Hirst	G 1909	Concord, N. H.
State Forester of New Hampshire		
Henry Steadman Hitchcock	G 1895	Woodbury, Conn.
Hardware Business, F. F. Hitchcock		
James Ladd Hitchcock	G 1898	Depew, N. Y.
Assistant Engineer, Construction Department, New York Central Railroad		
Edson Allen Hoffman	G 1897	Frankfort, Ky.
Assistant Manager, W. A. Gaines and Company		
Frederick Stearns Hollis	G 1903*	Indianapolis, Ind.
Assistant Professor of Organic Chemistry, Indiana University Medical School		
Davenport Hooker	U 1908	New Haven, Conn.
Instructor in Anatomy, Medical Department, Yale University		
Lemuel Robert Hopton	G 1896	Plainfield, N. J.
Superintendent, The Enos Company		
George Merriam Howard	U 1895	Philadelphia, Pa.
Chief Chemist, Electric Storage Battery Company		
James Leland Howard	U 1897	Hartford, Conn.
Assistant Secretary, Travelers Insurance Company		
Harry Arthur Stevens Howarth	U 1899	South Bethlehem, Pa.
Assistant Professor of Mechanical Engineering, Lehigh University		
Ernest Howe	U 1898*	Newport, R. I.
Consulting Geologist		
William Thomas Hildrup Howe	CF 1895	Cincinnati, Ohio
With American Book Company		
Yuen-li Hsia	G 1907	Berlin, Germany
Chinese Legation		

Yao-Chang H Hsin	U 1910	
Albert Kemp Hubbard	G 1901 (Kansas U 1901) City Engineer	Alva, Okla.
James Lanman Hubbard	U 1907 Secretary, A. H. Hubbard Company	Norwich, Conn.
Frederick George Hughes	G 1900 Chief Engineer, New Departure Manufacturing Company	Bristol, Conn.
Albert Wallace Hull	G 1909 Instructor in Physics, Worcester Polytechnic Institute	Worcester, Mass.
John Irving Hull	U 1909 With General Electric Company	Schenectady, N. Y.
Edward Hicks Hume	U 1897 Medical Missionary, Yale Mission	Changsha, China
Frederick Brewster Humphreys	U 1899 Instructor in Pathology, Columbia University	New York City
George Hoppin Humphreys, Jr	U 1898 Physician, St. Luke's Hospital	New York City
John Wilson Hunt	U 1904 Physician	Seattle, Wash.
Louis Doremus Huntoon	F 1905* Consulting Mining Engineer	New York City
George Pelton Hutchins	U 1899 Agriculture	Lamontville, N. Y.
Lewis Orrin Hutchinson	U 1910 Instructor in Mathematics and Science, Tome School for Boys	Port Deposit, Md.
William Albert Hyde	U 1901 Electrical Expert, Bureau of Ordnance, Navy Department	Washington, D. C.
Charles Anthony Ingersoll	CF 1895 Mechanical Engineer, Winchester Repeating Arms Company	New Haven, Conn.
William Lorne Irvine	U 1903 Assistant Surgeon, U. S. Navy	Newport, R. I.
David Duryea Irwin	U 1908 Mining Engineer, W. Rowland Cox and Staff	New York City
Holmes Condict Jackson	U 1896*† Professor of Physiology, University and Bellevue Hospital Medical College	New York City
Reginald Jackson	G 1903 Superintendent of Construction, The Foundation Company	Chicago, Ill.
George Samuel Jamieson	U 1901 Assistant Professor of Analytical Chemistry, Yale University	New Haven, Conn.
Nejib H Jebejian	U 1909 Engineering	New York City
Carl Oscar Johns	G 1905 Assistant Professor of Chemistry, Yale University	New Haven, Conn.
Alexander Johnson	U 1895 Chief Engineer, Department of Bridges	New York City

Frank Elmer Johnson	G 1910	Providence, R. I.
Physician, Rhode Island Hospital		
Treat Baldwin Johnson	G 1898*	New Haven, Conn.
Assistant Professor of Organic Chemistry, Sheffield Scientific School		
Louis Cleveland Jones	G 1898*	Syracuse, N. Y.
Laboratory Manager, Solvay Process Company		
Charles Hubbard Judd	F 1904*†	Chicago, Ill.
Head of Department of Education, University of Chicago		
Charles Sheldon Judd	G 1906	Honolulu, H. I.
Commissioner of Public Lands, U. S. Forest Service		
Albert Galloway Keller	F 1903†	New Haven, Conn.
Professor of Science of Society, Yale University		
Willet Harold Kellogg, Jr	U 1906	New Haven, Conn.
Secretary, Girvan-Kellogg Company		
Trumbull Kelly	U 1900	
(Deceased 1900)		
Cyrus Hamilton Kendall	U 1903	
(Deceased 1904)		
Herbert Leopold Kennedy	U 1906	Yonkers, N. Y.
Nose and Throat Specialist		
Valentine Odell Ketcham	U 1908	Keokuk, Ia.
Civil Engineer, Hydraulic Engineering Company of Maine		
Skunkichi Kimura	G 1896	Nagawa, Yokosuka, Japan
Wireless Engineer, Naval Ordnance Department		
Richard Shelton Kirby	U 1896	Gettysburg, Pa.
Professor of Civil Engineering, Pennsylvania College		
William Barri Kirkham	G 1906	New Haven, Conn.
Instructor in Biology, Yale University		
Charles Louis Kirschner	A 1903	New Haven, Conn.
Principal, High School		
Israel Simon Kleiner	U 1906	New York City
Assistant in Physiology and Pharmacology, The Rockefeller Institute		
Simon Bretzfelder Kleiner	U 1911	New Haven, Conn.
Student, Yale Medical School		
David Albert Kreider	F 1897*	New Haven, Conn.
Assistant Professor of Physics, Yale University		
Joseph Lehn Kreider	F 1905	Annville, Pa.
Instructor in Chemistry, Lebanon Valley College		
Richard Kremenz	U 1898	Newark, N. J.
Superintendent of Kremenz Company, Manufacturing Jewelers		
Beverly Waugh Kunkel	U 1901	New Haven, Conn.
Instructor in Biology, Yale University		
Charles Scott Landers	U 1900	New York City
Consulting Civil Engineer		
John Edward Lane	G 1903	North Yakima, Wash.
Physician		

Ralph Walker Langley	G 1910	New Haven, Conn.
Chemist, Acme Wire Company		
Robert Carr Lanphier	G 1897	Springfield, Ill.
Manager, Sangamo Electric Company		
Ellis Earle Lawton	G 1905	Granville, Ohio
Department of Physics, Denison University		
Willis Sargent Leggett, Jr	U 1906	New York City
Salesman, General Electric Company		
David Deltch Leib	F 1911	New Haven, Conn.
Instructor in Mathematics, Yale University		
Carl Starker Leopold	U 1911	Burlington, Ia.
Oliver Clarence Lester	F 1903 (Colorado F 1907)	Boulder, Col.
Professor of Physics, University of Colorado		
Frederick B Lewis	U 1909	Chicago, Ill.
With Pennsylvania Railroad Company		
Howard Bishop Lewis	U 1908	New Haven, Conn.
Assistant in Physiological Chemistry, Sheffield Scientific School		
Charles Davenport Lockwood	U 1900	Stamford, Conn.
Lawyer, Judge of Probate Court, District of Stamford		
Edwin Hoyt Lockwood	CF 1895*	New Haven, Conn.
Assistant Professor of Mechanical Engineering, Yale University		
William Harding Longley	G 1907	Baltimore, Md.
Associate Professor of Botany, Goucher College		
William Raymond Longley	F 1907 (Chicago G 1905)	New Haven, Conn.
Assistant Professor of Mathematics, Yale University		
Gerald Francis Loughlin	G 1905	Boston, Mass.
Instructor in Geology, Massachusetts Institute of Technology		
Albert Sheley Low	U 1911	New Haven, Conn.
Graduate Student Sanitary Engineering, Yale University		
Abbot Lawson Lowe	U 1906	
(Deceased 1908)		
Herbert Lucker	U 1901	
(Deceased 1902)		
Richard Swann Lull	F 1907	New Haven, Conn.
Professor of Vertebrate Paleontology, Yale University		
Graham Lusk	G 1897*†	New York City
Professor of Physiology, Cornell University Medical College		
John Franklin Lyman	G 1908	Columbus, Ohio
Associate Professor of Agricultural Chemistry, Ohio State University		
Charles Tyler Lyon	U 1906	New Haven, Conn.
Civil Engineering, New York, New Haven and Hartford Railroad Company		
George Grant MacCurdy	F 1899*†	New Haven, Conn.
Assistant Professor of Archaeology, Yale University		
Kenneth Gerald MacKenzie	G 1907	Bayonne, N. J.
Chemist, The Texas Company		
Stanley Robinson MacLane	U 1906	Boston, Mass.
Mechanical Engineer, B. F. Sturtevant Company		

Ralph Julian Marsh	U 1907	Wallingford, Conn.
Chief Chemist, R. Wallace and Sons Manufacturing Company		
William Crosby Marshall	F 1896*	New Haven, Conn.
Assistant Professor of Drawing, Sheffield Scientific School		
James Smith Martin	G 1905	Watertown, Conn.
Physician		
Carlton Howard Maryott	U 1911	Dallas, Tex.
Professor of Chemistry, Baylor Medical College		
Max Mason	F 1905*	Madison, Wis.
Professor of Mathematical Physics, University of Wisconsin		
Champion Herbert Mathewson	U 1902	New Haven, Conn.
Assistant Professor of Metallurgy, Sheffield Scientific School		
Matataro Matsumoto	G 1899	Kyoto, Japan
Professor of Psychology, Imperial University		
Ralph Nelson Maxson	G 1904	Lexington, Ky.
Professor of Inorganic Chemistry, Kentucky State University		
Hatsuji Mayessawa	U 1905	Tokyo, Japan
With Takata and Company, Marunowchi		
Cloyd North McAllister	F 1901*	Warrensburg, Mo.
Professor of Psychology, State Normal School		
Selim Walker McArthur	U 1908	Chicago, Ill.
Student, Rush Medical School		
Burtis Barton McCarn	U 1909	Chicago, Ill.
Structural Engineering with J. T. Ryerson and Son		
James Farley McClelland	F 1910	New Haven, Conn.
Professor of Mining Engineering, Yale University		
Albert Steele McCullough	U 1905	Coleraine, Minn.
Manager, Iron Range Coal and Ice Company		
John Stokes McCune	U 1907	Columbus, Ohio
Assistant Chemist, Water Purification Works		
Henry Edwin McDermott	U 1896	
(Deceased 1898)		
Boynton Wells McFarland	A 1896	New Haven, Conn.
Instructor in Chemistry, High School		
David Ford McFarland	F 1909 (Kansas U 1899; Illinois F 1910)	
Assistant Professor of Chemistry, University of Illinois [Urbana, Ill.		
Lawrence Riley McWeeney	G 1907	Port Chester, N. Y.
Accountant, Russell, Burdsall and Ward Bolt and Nut Company		
Herbert Edwin Medway	G 1904	Daleville, Pa.
Teaching		
Ralph Hill Melcer	U 1903	New London, Conn.
Superintendent, Palmer Brothers Company		
Lafayette Benedict Mendel	CF 1895*†	New Haven, Conn.
Professor of Physiological Chemistry, Sheffield Scientific School		
Anthony Joseph Mendillo	G 1907	New Haven, Conn.
Physician and Surgeon		

- George Albert Menge G 1903 Washington, D. C.
Technical Assistant in Pharmacology, Public Health Service
- Henry Franklin Merriam G 1900 Summit, N. J.
Research Specialist, General Chemical Company, New York
- Ishiro Mijake G 1901 Okayama, Japan
Professor of Education, Sixth National College
- David Henry Miller G 1904 Georgetown, Conn.
Assistant Superintendent, Gilbert and Bennett Manufacturing Company
- Edwin Cyrus Miller U 1907 Manhattan, Kan.
Instructor in Botany, Kansas State Agricultural College
- Hiram Miller U 1901 La Paz, Bolivia
Civil Engineer, Bolivia Railway Company
- John Milton Miller U 1904 Washington, D. C.
Assistant Physicist, Bureau of Standards
- Clark Godell Mitchell U 1909 (Columbia U 1911) Britannia Beach,
Engineer, Britannia Mining and Smelting Company [B. C.]
- Philip Henry Mitchell U 1904 (Brown F 1904) Providence, R. I.
Assistant Professor of Physiology, Brown University
- Walter Louis Mitchell G 1895 New York City
With Tiffany and Company
- George Webber Mixter G 1896 Moline, Ill.
Vice-President, Deere and Company
- Seth Enoch Moody G 1906 (Wisconsin CF 1906) St. Louis, Mo.
Assistant City Chemist
- Benjamin Moore G 1899 New York City
- Sydney Luard Moore G 1905 Denver, Col.
District Forester, U. S. Forest Service
- Edward Eugene Moran U 1904 Yochow, China
Government Service
- James Caddall Morehead G 1905 Evanston, Ill.
Instructor in Education, Northwestern University
- William Conger Morgan U 1896*† (California CF 1901) Berkeley, Cal.
Assistant Professor of Chemistry, University of California
- Frederick Hitchcock Morley U 1899 Denver, Col.
Mining Engineer
- Guy Burl Morrison U 1904 Wilmette, Ill.
Salesman, D. Appleton and Company
- Lawrence Stillman Morrison U 1911 Redlands, Cal.
- Louis Sutcliffe Murphy G 1907 Washington, D. C.
Examiner, U. S. Forest Service
- Ralph E Myers U 1909 Battle Creek, Mich.
Chemist at Battle Creek Sanitarium
- Victor Caryl Myers G 1909 Albany, N. Y.
Lecturer in Chemistry, New York Post-Graduate Medical School
- Andrew Burton Mygatt G 1901 San Francisco, Cal.
Engineering, Southern Pacific Company

Arthur Theodore Nabstedt	U 1910	Davenport, Ia.
Civil Engineer, Panama Canal		
Rokuro Nakaseko	G 1900	Kyoto, Japan
Professor of Physiological Chemistry, Doshisha College		
Homer Chidsey Neal	U 1909	New Haven, Conn.
Graduate Student, Yale University		
Theophilus Nelson	F 1896	Concord, N. H.
Instructor in Mathematics, St. Paul's School		
Frederick Edwin Newton	CU 1895	Andover, Mass.
Instructor in Mathematics, Phillips Academy		
Howard Douglas Newton	G 1908	Storrs, Conn.
Professor of Chemistry, Connecticut Agricultural College		
George Elwood Nichols	G 1906	New Haven, Conn.
Instructor in Botany, Yale University		
Henry James Nichols	G 1901	Washington, D. C.
Captain, Medical Corps, U. S. Army Medical School		
William Wallace Nichols	F 1895	New York City
Vice-President and Secretary, Allis-Chalmers Company		
Levi Fatzinger Noble	U 1907	Washington, D. C.
Junior Geologist, U. S. Geological Survey		
Henry Archibald North	G 1899	Chicago, Ill.
Chemist, Barrett Manufacturing Company		
Herbert Brinkerhoff North	G 1907	New Haven, Conn.
Assistant Professor of Drawing, Yale University		
John Pease Norton	F 1900†	New Haven, Conn.
Writer		
John Treadwell Norton, Jr	U 1898	Philadelphia, Pa.
Member of Booth, Garrett and Blair, Chemists		
Thomas Augustine O'Brien	U 1899	New Haven, Conn.
Clinical Assistant, Yale University		
Louis Albert Oldershaw	U 1907	New Britain, Conn.
Civil Engineer, Oldershaw and McKernan		
Herbert James Ord	U 1904	Yonkers, N. Y.
Assistant Engineer, Board of Water Supply, City of New York		
Raymond William Osborne	U 1906	Chicago, Ill.
Teacher of Physical Sciences, Francis W. Parker School		
Charles Leonard Overlander	U 1901	Boston, Mass.
Physician		
Brace Whitman Paddock	U 1900	Pittsfield, Mass.
Physician and Surgeon		
Leigh Page	U 1904	New Haven, Conn.
Assistant in Physics, Sheffield Scientific School		
Francis Ward Paine	U 1910	Houghton, Mich.
Instructor, Mining Geology, Michigan College of Mines		
Samuel Palkin	U 1910	Washington, D. C.
Chemist, Bureau of Chemistry		

Erik Schjoth Palmer	G 1906	New Brunswick, N. J.
Instructor in Mathematics, Rutgers College		
Howard Earle Palmer	U 1907	Gloucester City, N. J.
Chemist, The Welsbach Light Company		
Charles Joel Parker	U 1900	Coventryville, N. Y.
Lumber Business		
John Emilius Parker	G 1905	East Orange, N. J.
Physician		
William Huntington Parker	G 1898*	Boston, Mass.
Government Chemist, Custom House		
Lewis Abraham Parsons	U 1908	Grand Rapids, Mich.
Mining Engineer		
Martin Kellogg Pasco, Jr	U 1905	New Britain, Conn.
Superintendent American Hosiery Company		
Robert Alexander Patterson	U 1911	New Haven, Conn.
Graduate Student, Yale University		
Silas Beach Patterson	G 1897	New York City
Chief Draftsman, Bridge Department, New York Central and Hudson River		
Harley T Peck	U 1909	New Haven, Conn.
Chemist, Winchester Repeating Arms Company		
Henry Waterman Peck	U 1897	Rochester, N. Y.
Assistant Manager, Rochester Railway and Light Company		
Henry Augustus Perkins	G 1901*†	Hartford, Conn.
Professor of Physics, Trinity College		
Clarence Curtiss Perry	G 1905	New Haven, Conn.
Instructor in Physics, Sheffield Scientific School		
Charles Adams Peters	G 1900	Amherst, Mass.
Assistant Professor of Soil Chemistry, Massachusetts Agricultural College		
Isaac King Phelps	F 1896*	Washington, D. C.
Assistant Organic Chemist, U. S. Bureau of Chemistry		
Wyllys Irvin Phelps	U 1902	Pittsburgh, Pa.
Assistant Engineer, Pennsylvania Lines West of Pittsburgh		
James Pierpont	F 1896*	New Haven, Conn.
Professor of Mathematics, Yale University		
William Kinney Pike	U 1897	Danielson, Conn.
Surveyor and Civil Engineer		
Louis Valentine Pirsson	CF 1895*†	New Haven, Conn.
Professor of Physical Geology, Yale University		
Frank Wesley Pitman	U 1904	New Haven, Conn.
Instructor in History, Yale University		
Washington Platt	U 1911	Baltimore, Md.
Student, Johns Hopkins Medical School		
Samuel James Plimpton	U 1905	New Haven, Conn.
Assistant in Physics, Yale University		
Joseph Ezekiel Pogue, Jr	G 1909*	Washington, D. C.
Assistant Curator, U. S. National Museum		

Lawrence A Pomeroy	U 1905 Physician	Cleveland, Ohio
Raymond Ashley Pond	U 1909 Inspector, New York Central and Hudson River Railroad	Utica, N. Y.
Charles Talbot Porter 2nd	U 1907 Instructor in English	Cleveland, Ohio
John Henry Porter	U 1897 With Boetcher, Porter and Company, Brokers	Denver, Col.
Milton Brackett Porter	G 1901* Professor of Mathematics, University of Texas	Austin, Tex.
Joseph Hyde Pratt	U 1896*† State Geologist of North Carolina and Consulting Engineer	Chapel Hill, N. C.
Nathan Tolles Pratt	G 1902 Physician	Bridgeport, Conn.
Edward Hamilton Prior	U 1903 Engineer and Salesman, John Baker, Jr.	Chicago, Ill.
Oscar Stoddard Pulman	G 1902 Assistant Superintendent, National Carbon Company	Cleveland, Ohio
David Lindsey Randall	G 1906 Professor of Chemistry, Baker University	Baldwin, Kan.
Joseph Chappell Rayworth	U 1906 (Washington F 1911) Instructor of Mathematics, Washington University	St. Louis, Mo.
Arthur Bernhard Recknagel	G 1906 Assistant District Forester, U. S. Forest Service	Albuquerque, N. M.
Henry Lewis Read	U 1909 Student, Columbia University	New York City
Frederick Carl Reckert	U 1911 Assistant Manager, Ehrmann Manufacturing Company	Terre Haute, Ind.
Chester Albert Reeds	G 1907 Associate in Geology, Bryn Mawr College	Bryn Mawr, Pa.
George Harold Reid	U 1901 With General Electric Company	Schenectady, N. Y.
Leo Frederick Rettger	F 1902* Assistant Professor of Bacteriology, Yale University	New Haven, Conn.
Alfred Newton Richards	G 1898* (Columbia G 1903) Professor of Pharmacology, University of Pennsylvania	Philadelphia, Pa.
Roland George Dwight Richardson	F 1904 (Brown F 1904) Assistant Professor of Mathematics, Brown University	Providence, R. I.
Philip Franklin Ripley	U 1897 Chemist, Wood Worsted Mills	Lawrence, Mass.
Allan Douglas Risteen	G 1901* Expert Engineer, Travelers' Insurance Company	Hartford, Conn.
Laurence Ballard Robbins	U 1908 With Crane Brothers	Westfield, Mass.
Charles Asaph Roberts	U 1902 Attorney at Law	New York City

- Edward Ellis Pierpont Roberts U 1904
(Deceased 1904)
- Edwin Jay Roberts U 1911 Waterville, Me.
Instructor in Chemistry, Colby College
- Colin Charles Robertson G 1906 Bloomfontaine, Orange Free State
Assistant Conservator, Forest Department, University of South Africa
- Heaton Ridgeway Robertson U 1906 New Haven, Conn.
Assistant Engineer, New York, New Haven and Hartford Railroad Company
- Henry Hollister Robinson F 1902 Hartford, Conn.
Geologist
- Joseph Wickham Roe CU 1895 New Haven, Conn.
Assistant Professor of Mechanical Engineering, Sheffield Scientific School
- William Cumming Rose G 1909 Philadelphia, Pa.
Instructor in Chemistry, University of Pennsylvania Medical School
- Joseph Rosenbaum U 1907 Ithaca, N. Y.
Graduate Student, Cornell University
- Eustis Thacher Rowland U 1911 New Haven, Conn.
Post-Graduate Student, Yale University
- Henry Camp Russ U 1902 Hartford, Conn.
Physician, Charter Oak Private Hospital
- Ely Morgan Talcott Ryder U 1896 New York City
Engineer, Third Avenue Railway Company
- Tadasu Saiki G 1907 Kitayamasaki, Iyo, Japan
Physiological Chemist
- Walter Murray Sanders U 1899 Marion, Ky.
Mining
- James Cox Sanderson U 1907 New Haven, Conn.
Graduate Student in Physics, Yale University
- Arthur Sandiford U 1904 Norwalk, Conn.
Instructor in Harstrom School
- Charalambos George Sávidis U 1906
(Deceased 1909)
- Louis Saxon U 1895 Easton, Pa.
Engineering
- Marvin McRae Scarbrough G 1906 New Haven, Conn.
Instructor in Pharmacology, Yale Medical School
- Jacob Parsons Schaeffer F 1911 New Haven, Conn.
Assistant Professor of Anatomy, Yale University
- Orville Hickok Schell U 1900 New Rochelle, N. Y.
Physician
- Edward Christian Schneider G 1901* Colorado Springs, Col.
Professor of Biology, Colorado College
- Samuel Ray Scholes G 1911 Pittsburgh, Pa.
Fellow in Industrial Research, University of Pittsburgh
- Charles Schuchert F 1906*† New Haven, Conn.
Professor of Paleontology, Yale University

Edward Wheeler Scripture	G 1895*†	New York City
Associate in Psychiatry, Columbia University		
Lawrence Selling	U 1904	Portland, Ore.
Physician		
William Albert Setchell	CF 1895*† (California CF 1901)	Berkeley, Cal.
Professor of Botany, University of California		
Herbert Lee Seward	U 1906	New Haven, Conn.
Instructor in Mechanical Engineering, Sheffield Scientific School		
Howard Francis Shattuck	U 1911	Columbus, Ohio
Ernest Wilson Sheldon	U 1907	Strathcona, Alberta
Assistant Professor of Mathematics, University of Alberta		
Norman Arthur Shepard	U 1910	New Haven, Conn.
Instructor in Chemistry, Sheffield Scientific School		
William Kent Shepard	U 1897*	New Haven, Conn.
Instructor in Mechanics, Yale University		
Edward James Sherwood	U 1898	Mitchell, S. D.
Manager, Mitchell Power Company		
Frederick Augustus Sherwood	U 1901	Ottawa, Ill.
Engineering		
Zenas Harrison Sikes	G 1898	Yonkers, N. Y.
Engineer, New York Central and Hudson River Railroad		
Max Silverman	U 1901	Philadelphia, Pa.
Chemist, The Berg Company		
Max Ruskin Smirnow	F 1910	New Haven, Conn.
Instructor in Pathology, Yale Medical School		
Burke Smith	G 1902*	Chicago, Ill.
Special Investigator, Chicago Telephone Company		
Henry DeWitt Smith	G 1908	New London, Conn.
Mining Geologist, with Spurr and Cox, Inc.		
Philip Augustus Smith	U 1910	New Haven, Conn.
Manufacturing		
Percey Franklyn Smith	F 1897*†	New Haven, Conn.
Professor of Mathematics, Yale University		
Ernest William Sniffen	U 1896	Hampton, Va.
Draftsman, Newport News Shipbuilding Company		
Jesse Wheat Speidel	U 1900	Wheeling, W. Va.
General Manager, City and Elm Grove Railroad Company		
Leavenworth Porter Sperry	G 1902	Waterbury, Conn.
Manager, Scoville Manufacturing Company		
Roger Sherman Sperry	U 1910	New Haven, Conn.
Graduate Student, Mining Engineer, Sheffield Scientific School		
Earl Tappan Stannard	U 1905	Flat River, Mo.
Milling Superintendent, Federal Lead Company		
Medary Wilson Stark	U 1908	St. Albans, W. Va.
Treasurer, American Column and Lumber Company		

George Pratt Starkweather (Deceased 1901)	F 1896	
Douglas Bovard Sterrett Assistant Geologist, U. S. Geological Survey	G 1904	Washington, D. C.
George Albert Stetson Graduate Student, Yale University	U 1910	New Haven, Conn.
John Minor Stetson Instructor in Mathematics, University of Vermont	U 1909	Burlington, Vt.
Nell Everett Stevens Instructor in Botany, Kansas Agricultural College	G 1911	Manhattan, Kan.
Henry Daniells Stowe Engineer	U 1900	Perryville, Md.
Carl Eben Stromquist Professor of Mathematics, University of Wyoming	G 1903*	Laramie, Wyo.
Wendell Melville Strong Associate Actuary, Mutual Life Insurance Company	G 1897*	New York City
Jeremiah Barrett Sullivan Physician	G 1906	New Haven, Conn.
Roscoe Henry Suttle Assistant Instructor, Sheffield Scientific School	U 1911	New Haven, Conn.
Charles Christian Swartz Mining Engineer	U 1900	South Norwalk, Conn.
Leonard Merrill Tarr Forecaster, U. S. Weather Bureau	F 1902	New Haven, Conn.
Charles Frederick Taylor Assistant Engineer, Ford, Buck and Sheldon, Inc.	U 1906	Hartford, Conn.
Edwy Lycurgus Taylor Assistant Engineer, Electrical Division, New York Central and Hudson River	U 1901	New York City
Horace Van Sands Taylor Engineer, Westinghouse Electric and Manufacturing Company	U 1908	Pittsburgh, Pa.
Thomas Smith Taylor Instructor in Physics, University of Illinois	G 1909	Urbana, Ill.
Henry Clarke Thacher Physician, Assistant in Medicine, Columbia University	U 1902	New York City
Clarence Proctor Thomas Student, College of Physicians and Surgeons	U 1911	New York City
John Hastings Thomas Instructor in Physics and Chemistry, Portland Academy	U 1904	Altoona, Pa.
Norman Campbell Thorne Instructor in Physics and Chemistry, Portland Academy	U 1902	Portland, Ore.
Wilder Tileston Assistant Professor of Medicine, Yale University	F 1911	New Haven, Conn.
Edwin Ward Tillotson Assistant Professor of Industrial Research, University of Kansas	G 1906	Lawrence, Kan.
Burton Isaac Tolles Physician	U 1901	Ansonia, Conn.
James William Toumey Professor of Silviculture, Yale University	F 1901*†	New Haven, Conn.

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John Clayton Tracy	F 1897†	New Haven, Conn.
Assistant Professor of Structural Engineering, Yale University		
Joseph Henry Tracy	G 1896	Philadelphia, Pa.
Assistant Chief Engineer, Electric Storage Battery Company		
Elisha Grant Trowbridge	CF 1895	Paterson, N. J.
Engineer, Passaic Structural Steel Company		
Lucius Tuttle	U 1901† (Pennsylvania F 1908)	Philadelphia, [Pa.]
William Henry Twenhofel	U 1908 (Kansas F 1910)	Lawrence, Kan.
Assistant Professor of Geology and Paleontology, University of Kansas		
Horace Scudder Uhler	F 1907	New Haven, Conn.
Assistant Professor of Physics, Yale University		
William Leroy Ulrich	U 1906	Manchester, Conn.
Superintendent of Roads and Bridges		
Frank Pell Underhill	U 1900*	New Haven, Conn.
Assistant Professor of Physiological Chemistry, Yale University		
Frederick Brown Utley	U 1903	Pittsburgh, Pa.
Physician, Instructor in Medicine, University of Pittsburgh		
William Valentine	U 1897	Waterbury, Conn.
Chemist, Apothecaries Hall Company		
Ralph Gibbs Van Name	U 1899	New Haven, Conn.
Assistant Professor of Chemistry, Yale University		
Willard Gibbs Van Name	G 1899*	Albany, N. Y.
Zoologist, New York State Museum		
Darius Thompson Wadhams	G 1899	Oswego, N. Y.
Chief Draftsman, Oswego Machine Works		
Percy Talbot Walden	F 1896*	New Haven, Conn.
Assistant Professor of Chemistry, Yale University		
Elisha Walker	U 1900	New York City
With Salomon and Company		
William Walker	U 1899	
(Deceased 1903)		
William Knickerbocker Wallbridge	G 1902	New York City
Vice-President, Lamont, Corliss and Company		
Freeman Ward	U 1903	New Haven, Conn.
Instructor in Geology and Mineralogy, Yale University		
Hiram Lee Ward	F 1906	Swarthmore, Pa.
Assistant Professor of Chemistry, Swarthmore College		
Howard Thomas Ware	U 1909	New York City
Engineer, James Stewart and Company		
Charles Hyde Warren	U 1896*	Boston, Mass.
Associate Professor of Mineralogy, Massachusetts Institute of Technology		
Edmund Leon Warren	U 1906	Boston, Mass.
Production Engineer, W. H. McElwain Company		
Everett Oyler Waters	U 1911	New Haven, Conn.
Charles Harlan Watzek	U 1911	Davenport, Ia.
Lumber Manufacturing		

- Clarence Eugene Weaver U 1899 Empalme, Sonora, Mexico
Engineer, Maintenance of Way, Southern Pacific Railway of Mexico
- Ernest Charles Webster U 1904 New Haven, Conn.
Engineer, The Connecticut Company
- Lewis Hill Weed U 1908 Baltimore, Md.
Medical Student, Johns Hopkins Medical School
- Luther Cornelius Weeks CG 1903 Lafayette, Ind.
Instructor in Mathematics, Purdue University
- Howard Frederick Weiss U 1905 Madison, Wis.
Assistant Director, Forest Products Laboratory
- William Morris Weller CF 1895 Los Angeles, Cal.
Petroleum Engineer, Standard Oil Company
- Arthur Cleveland Wells U 1906 New York City
Measurer, Wells and Newton Company, Engineers and Contractors
- Harry Gideon Wells U 1895*† Chicago, Ill.
Associate Professor of Pathology, University of Chicago
- Wilhelm David Allen Westfall U 1901* (Missouri F 1908) Columbia, Mo.
Assistant Professor of Mathematics, University of Missouri
- Jacob Westlund F 1897* Lafayette, Ind.
Professor of Mathematics, Purdue University
- Henry Lord Wheeler F 1896* New Haven, Conn.
Professor of Organic Chemistry, Yale University
- Lynde Phelps Wheeler F 1896* New Haven, Conn.
Assistant Professor of Physics, Sheffield Scientific School
- Frank Elbert Wheelock G 1910 Columbia, Mo.
Instructor in Physics, University of Missouri
- George Hoyt Whipple U 1900 Baltimore, Md.
Physician, Johns Hopkins Hospital
- William Arthur Whitcomb U 1895 New York City
General Manager, Great Northern Paper Company
- Benjamin White G 1903* Brooklyn, N. Y.
Director, Department of Bacteriology, Hoagland Laboratory
- George Ritch White U 1906 Danbury, Conn.
Electrical Department, New York, New Haven and Hartford Railroad Company
- John Alan White U 1907
(Deceased 1908)
- Edward Reed Whittemore U 1898 New Haven, Conn.
Physician
- Levi Wilcox U 1897 Waterbury, Conn.
Secretary, Apothecaries Hall Company
- Harley Richard Willard G 1911 New Haven, Conn.
Instructor in Mathematics, Yale University
- Arthur Baldwin Williams, Jr U 1898 Cleveland, Ohio
General Agent, Cleveland Humane Society
- Arthur Collins Williams U 1900 New York City
Special Agent, Mutual Life Insurance Company

Henry Shaler Williams	CF 1895*† (Cornell F 1886)	Ithaca, N. Y.
	Professor of Geology, Cornell University	
Joseph Dimock Williams	U 1904 (Worcester C 1908)	Fort Plain, N. Y.
	In Department of State Engineer, New York	
Merton Yarwood Williams	G 1911	New Haven, Conn.
	Instructor in Soils, Yale Forest School	
Edwin Bidwell Wilson	F 1901*	Boston, Mass.
	Associate Professor of Mathematics, Massachusetts Institute of Technology	
Wallace Alvin Wilson	F 1911	New Haven, Conn.
	Instructor in Mathematics, Yale University	
Elihu Smith Wing	U 1911	New Haven, Conn.
	Student, Medical College, Yale University	
Andrew Lincoln Winton	G 1900†	Chicago, Ill.
	Chief, Chicago Food Laboratory, U. S. Department of Agriculture	
Robert P Winton	U 1909	New Haven, Conn.
George Paul Wisdom	U 1898	
Cooper Wood	U 1898	Detroit, Mich.
	In Business	
Edward Seymour Woodruff	G 1906	
	(Deceased 1909)	
Lorande Loss Woodruff	F 1905 (Columbia G 1903)	New Haven, Conn.
	Assistant Professor of Biology, Sheffield Scientific School	
John L Wortman	G 1902	Long Pine, Neb.
	Mining Engineer	
Alfred Parks Wright	U 1901	
	(Deceased 1901)	
William Josiah Wright	U 1908	New Haven, Conn.
	Graduate Student, Yale University	
Foh-Chung Yen	G 1908	Changsha, China
	Physician, Yale Mission College, Changsha	
Bayard Daniel York	U 1907	Hartford, Conn.
	Teacher, High School	
George Albert Young	G 1904	Ottawa, Canada
	Geological Survey	

MINNESOTA CHAPTER

UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINNESOTA

Charter Dated April 23, 1896

Chapter Installed May 13, 1896

HISTORICAL SKETCH

The charter for a chapter at the University of Minnesota was granted April 23, 1896. Professor H. E. Smith, a member of the Alpha Chapter, presented the charter to the petitioners, who were installed as charter members at a meeting held May 13, 1896. A temporary organization was effected and arrangements were made for a permanent organization, and on May 14 the constitution and by-laws were provisionally adopted. The regular officers were elected and installed on May 15, and at the same meeting committees were appointed and the permanent organization was effected. The committee on extension reported May 18 and new members were elected from the faculty and graduate school. At a meeting held May 25, the constitution was adopted and new members were elected from the senior class. The first initiation was held with a banquet, June 2, 1896, since which time the annual banquet with the initiation has become an important event in the yearly calendar and is well attended by the alumni members. In response to an invitation from the Chapter, Doctor Henry T. Eddy gave the first Sigma Xi Commencement oration in the University Chapel June 3, 1896.

In February, 1898, a joint committee of Phi Beta Kappa and Sigma Xi entered into an agreement to provide for an oration at each Commencement, the societies to alternate in supplying a speaker. The agreement was ratified by both societies.

During the season of 1899 the Chapter had a representative at the Marine Biological Laboratory at Woods Hole.

In addition to the biennial Commencement oration many lectures have been given before the Society by distinguished scientists. One or two meetings a year have been devoted to a study of new apparatus, and an examination of new installations in the laboratories. Besides these meetings, the Society has had each year at least one social meeting.

W. H. K.

PUBLICATIONS

Society of the Sigma Xi, Minnesota Chapter, University of Minnesota, Minneapolis, 1908. pp. 39.

OFFICERS FOR 1911-12

President.....	FREDERIC EDWARD CLEMENTS
Vice-President.....	JOHN BLACK JOHNSTON
Recording Secretary.....	WILLIAM HENRY BUSSEY
Corresponding Secretary.....	DAVID FERDINAND SWENSON
Treasurer.....	ANTHONY LISPENARD UNDERHILL
Councilor.....	HENRY TURNER EDDY

MEMBERSHIP ROLL

William Edward Acomb	U 1902	Donora, Pa.
Assistant Superintendent Donora Works, American Steel and Wire Company		
George Gooding Ainslie	U 1908*	Nashville, Tenn.
Assistant, U. S. Bureau of Entomology, Station B		
George Moritz Albrecht	U 1906	Washington, D. C.
Assistant Examiner, U. S. Patent Office		
David Arthur Allee	U 1902	Schenectady, N. Y.
Civil Engineer, General Electric Company		
Harry Winslow Allen	G 1896	Minneapolis, Minn.
Physician and Surgeon		
Deborah M Anderson	U 1905	Minneapolis, Minn.
Instructor in Botany, West High School		
John G Anderson	U 1897	Minneapolis, Minn.
Assistant Engineer, Minneapolis and St. Louis Railway		
Martin E Anderson	U 1901	Washington, D. C.
Assistant Examiner of Patents		
Walter Edmund Anderson	U 1910	Princeton, N. J.
Graduate Student, Princeton University		
Claribel Angle	U 1897	
(Deceased 1903)		
William Remsen Appleby	CF 1896*†	Minneapolis, Minn.
Dean of School of Mines, University of Minnesota		
Emmanuel Arthur Arzt	U 1899	Pipestone, Minn.
Electrical Engineer		
Clarence Elliott Austin	U 1903	Moose Jaw, Saskatchewan
Treasurer and Manager, Saskatchewan Flour Mills Company, Ltd.		
Walter L Badger	F 1909	Washington, D. C.
Assistant Chemist, U. S. Bureau of Standards		
Acel Conrad Baker	U 1897	Fergus Falls, Minn.
Physician and Surgeon		
Frank Morris Ball	U 1906	Minneapolis, Minn.
The Tribune		
Frederic Herbert Bass	F 1902	Minneapolis, Minn.
Professor of Municipal and Sanitary Engineering, University of Minnesota		
William Carroll Bass	U 1899	Featherville, Idaho
Manager Gold Belt Mining Company		
Albert Henry Bates	U 1905	Muskegon, Mich.
Electrical Engineer		
George Neander Bauer	F 1901*†	Minneapolis, Minn.
Professor of Mathematics, University of Minnesota		
Annabel Beach	U 1898	New York City
(Mrs Bertram G Knight)		
Richard Laurence Beaulieu	U 1902	Seattle, Wash.
Resident Engineer, Great Northern Railway		
George Becker	U 1897	Minneapolis, Minn.
Assayer		

Walter Clarence Beckjord	U 1909	St. Paul, Minn.
Engineer, St. Paul Gas Light Company		
Fred William Bedford	U 1900	Chicago, Ill.
Chemist and Superintendent, Sprague-Warner Company		
Charles John Bell	CF 1896	
(Deceased 1903)		
Cora Bennett	U 1898	Minneapolis, Minn.
Bookkeeper		
Ella Gustavia Berger	G 1909	St. Paul, Minn.
Teacher of Mathematics, Mechanic Arts High School		
Nanda M. Berger	U 1909	Hutchinson, Minn.
Teacher, Hutchinson High School		
Charles Peter Berkey	F 1906* (Columbia G 1904)	New York City
Assistant Professor of Geology, Columbia University		
Adam Carl Beyer	U 1896	
(Deceased 1901)		
Theodore Alexander Beyer	U 1903	Salt Lake City, Utah
Vice-President, Jas. J. Burke and Company		
Lewis Scoville Billau	U 1905	Baltimore, Md.
Assistant Engineer, Electrical Department, Baltimore and Ohio Railway		
James D Bilsborrow	U 1910	Crookston, Minn.
Instructor in Agronomy, University of Minnesota Experiment Station		
Elmer Bisbee	U 1905	Denver, Col.
Contracting Engineer, Minneapolis Steel and Machinery Company		
Oscar Bernard Bjorge	U 1907	Duluth, Minn.
Engineer, Draftsman, Clyde Iron Works		
Gilbert Ames Bliss	F 1901* (Chicago F 1903)	Chicago, Ill.
Associate Professor of Mathematics, University of Chicago		
Edward Bates Block	U 1898	Atlanta, Ga.
Physician and Surgeon		
Nathan Herschel Bogue	U 1904	Washtucua, Wash.
Engineer, Portland and Seattle Railway		
Ole Martin Bolme	U 1910	Chicago, Ill.
Draftsman, American Bridge Company		
Oliver Bowles	F 1911	Minneapolis, Minn.
Instructor in Geology, University of Minnesota		
Robert Russell Boyd	U 1905	Globe, Ariz.
Mining Engineer, Old Dominion Copper and Smelting Company		
Henry Martyn Bracken	F 1904*†	St. Paul, Minn.
Executive Officer, State Board of Health		
Charles John Brand	U 1902*	Washington, D. C.
Physiologist, U. S. Department of Agriculture		
Benjamin Francis Parlett Brenton	F 1910	Minneapolis, Minn.
Instructor in Chemistry, University of Minnesota		
Florence Mayfred Briggs	U 1909	St. Paul, Minn.
Teacher of Science, High School		

Alvah E Brockway	U 1909	Chicago, Ill.
Student Apprentice, Westinghouse Electric Company		
William Ellsworth Brooke	F 1902*†	Minneapolis, Minn.
Professor of Mathematics, University of Minnesota		
Edgar Dewight Brown	F 1907*	Minneapolis, Minn.
Professor of Pharmacology, University of Minnesota		
John C Brown	F 1902	Minneapolis, Minn.
Assistant Professor of Biology, University of Minnesota		
Rosamond (Thompson) Bruce	U 1901	Minneapolis, Minn.
(Mrs Charles A Bruce)		
Frederick William Buck	U 1909	Duluth, Minn.
Oxy-Acetylene Welding and Cutting		
Max Whitney Buell	U 1902	Takoma Park, D. C.
Farmer		
Coates Preston Bull	F 1905*	St. Anthony Park, St. Paul, Minn.
Associate Professor of Agriculture, University of Minnesota		
Ellen Adelia (Lamoreaux) Burger	U 1901	Miles City, Wash.
(Mrs J Archie Burger)		
Kelvin Burns	G 1908	Lick Observatory, Cal.
Astronomer		
Paul Colburn Burrill	U 1902	Milwaukee, Wis.
Engineer, Worden-Allen Company		
William Henry Bussey	F 1908* (Chicago G 1903)	Minneapolis, Minn.
Assistant Professor of Mathematics, University of Minnesota		
Frederic King Butters	U 1899*	Minneapolis, Minn.
Assistant Professor of Botany, University of Minnesota		
Charlotte Deming Cahoon	U 1897	Butte, Mont.
Teacher, High School		
Albert A Campbell	U 1909	St. Paul Minn.
Physician and Surgeon		
John E Campbell	U 1899	South St. Paul, Minn.
Physician and Surgeon		
George de S Canavarro	U 1908	New Haven, Conn.
Graduate Student, Yale University		
Jessie F Caplin	U 1897	Minneapolis, Minn.
Teacher of Chemistry, West High School		
Henry Benjamin Carey	U 1900 (California F 1906)	San Francisco, [Cal.
Physician and Surgeon		
George Albertus Casseday	U 1896	
(Deceased)		
Charles Henry Chalmers	U 1896	Minneapolis, Minn.
(Retired)		
Edward Joseph Cheney	U 1904	Schenectady, N. Y.
Designing Engineer, General Electric Company		
Edward Gheen Cheyney	U 1907	St. Anthony Park, St. Paul, Minn.
Director of College of Forestry, University of Minnesota		

Alice May Child	U 1901	Milwaukee, Wis.
Science Teacher, Milwaukee High School		
Peter Christianson	F 1896	Minneapolis, Minn.
Professor of Metallurgy, University of Minnesota		
Thomas Alfred Clark	F 1899	
(Deceased 1901)		
Charles Patrick Clarke	U 1908	St. Maries, Ida.
Engineer, Chicago, Milwaukee and Puget Sound Railway		
Frederic Edward Clements	F 1908*† (Nebraska F 1901)	Minneapolis, Minn.
Professor of Botany, University of Minnesota		[Minn.]
Lillian Cohen	U 1900	Minneapolis, Minn.
Instructor in Chemistry, University of Minnesota		
Nathan Cohen	U 1906	New York City
Patent Attorney		
Marjorie H Cole	U 1904	Minneapolis, Minn.
(Mrs Clarence A Paulson)		
Ruth Fitch Cole	U 1902	Minneapolis, Minn.
Graduate Student, Columbia University		
Wallace Cole	U 1910	St. Paul, Minn.
Physician and Surgeon		
Frank Henry Constant	CF 1896	Minneapolis, Minn.
Professor of Structural Engineering, University of Minnesota		
Robertson Cook	U 1903	Brookings, S. D.
Professor of Engineering, South Dakota State College		
Louis Joseph Cooke	F 1898	Minneapolis, Minn.
Director of Gymnasium, University of Minnesota		
Thomas Poe Cooper	U 1908	Minneapolis, Minn.
Assistant in Agriculture, University of Minnesota		
J Frank Corbett	F 1909	Minneapolis, Minn.
City Bacteriologist		
Martin Cornelius	U 1906	Pittsburgh, Pa.
Engineer, Westinghouse Electric and Manufacturing Company		
Ellen (Doble) Cornish	U 1898	Berkeley, Cal.
(Mrs Frank V Cornish)		
Richard Ferguson Cox	U 1908	Graceville, Minn.
Mechanical Engineer		
Robert Craig	U 1897	Minneapolis, Minn.
General Manager, Power Equipment Company		
Wallace T Crawford	U 1906	Faribault, Minn.
Crawford Garage		
Charles Royal Cressy	U 1908	South Bethlehem, Pa.
Instructor in Chemistry, Lehigh University		
L R Critchfield	U 1909	Hunter, N. D.
Physician and Surgeon		
Neil Currie, Jr	U 1908	Pittsfield, Mass.
Engineer, General Electric Company		

Alvin Sayles Cutler	U 1905	Minneapolis, Minn.
Assistant Professor of Railway Engineering, University of Minnesota		
Christen Frederick Dahl	U 1908	St. Hilaire, Minn.
	Mining Engineer	
Hans F M Dahl	U 1898	
(Deceased 1903)		
Arnold Victor Dahlberg	U 1905	Spreckels, Cal.
	Sugar Chemist	
Hans H Dalaker	U 1902*	Minneapolis, Minn.
Assistant Professor of Mathematics, University of Minnesota		
Farrington Daniels	G 1911	Cambridge, Mass.
Graduate Student and Assistant in Chemistry, Harvard University		
Jake Danner	U 1901	La Grange, Ill.
	Telephone Engineer	
Perley Alton Davis	U 1898	Minneapolis, Minn.
Instructor in Chemistry, North High School		
Reuben Noble Day	U 1896	New Orleans, La.
Day Brothers Lumber Company		
Frederick W Denton	CF 1896	Houghton, Mich.
	Mining Engineer	
Ira Harris Derby	F 1907	Minneapolis, Minn.
Assistant Professor of Chemistry, University of Minnesota		
Samuel Bertolett Detwiler	U 1906	Philadelphia, Pa.
	Expert Forester	
Gerhard Dietrichson	U 1909	Madison, Wis.
Assistant in Chemistry, University of Wisconsin		
Ellen Dobie	U 1898	Berkeley, Cal.
(Mrs Frank V Cornish)		
James Maurice Doran	U 1907	Washington, D. C.
Assistant Chemist, U. S. Treasury Department		
Joseph Dougherty	U 1907	
(Deceased 1909)		
James Chase Dow	U 1900	Butte, Mont.
	Electrical Engineer	
Hal Downey	U 1903*	Minneapolis, Minn.
Assistant Professor of Animal Biology, University of Minnesota		
John Florin Downey	CF 1896*†	Minneapolis, Minn.
Dean of College of Science, Literature and Arts, University of Minnesota		
Katherine Melvina Downey	U 1910	Luverne, Minn.
Teacher of Science, High School		
Frank Eugene Downing	U 1904	Duluth, Minn.
Engineer, Oliver Iron Mining Company		
Charles Ralph Drake	U 1909	Minneapolis, Minn.
Demonstrator of Pathology, University of Minnesota		
Neil Stanley Dungay	U 1904	Northfield, Minn.
Acting Professor of Biology, Carleton College		

Harriet E Dunton (Mrs N H Thompson)	U 1900	Grandview, Wash.
Michael Higgins Ebert	U 1907 Principal High School	Webster, S. D.
Henry Turner Eddy Dean of the Graduate School, Professor of Mathematics, University of Minnesota	CF 1896*† (Cornell A 1888)	Minneapolis, Minn.
Horace Taylor Eddy	G 1896 Automobile Dealer	Cincinnati, Ohio
Ruth Elizabeth Eddy (Mrs Chas F Keyes)	F 1897	Minneapolis, Minn.
Austin Southwick Edwards Graduate Student, Cornell University	G 1910	Ithaca, N. Y.
Halsten Olson Eggen Instructor in Physics, High School	U 1899	Santa Ana, Cal.
Sturla Einarsson Instructor in Astronomy, University of California	U 1905 (California F 1906)	Berkeley, Cal.
Arthur Hugo Elftman Mining Engineer	U 1896*	Tonopah, Nev.
Byron Todd Emerson Teacher of Chemistry, Central High School	U 1903	Minneapolis, Minn.
Henry Anton Erikson Assistant Professor of Physics, University of Minnesota	U 1896*	Minneapolis, Minn.
Harvey Cole Estep Associate Editor, Iron Trade Review, and The Foundry	U 1908	Chicago, Ill.
Nevada Sutherland Evans Seed Inspector, Northrup King and Company	U 1910	Minneapolis, Minn.
Edwin Walter Ewy Assistant in Botany, University of Minnesota	U 1909	Minneapolis, Minn.
Mary Gilmore Fanning Teacher, Humboldt High School	U 1899	St. Paul, Minn.
Ellen (Pendergast) Farnum (Mrs A W Farnum)	U 1903	St. Joseph, Mo.
Roy Yalding Ferner Assistant Physicist, U. S. Bureau of Standards	G 1893	Washington, D. C.
Edward Fidler Instructor in Pathology, University of Minnesota	F 1909	Minneapolis, Minn.
Peter Field Assistant Professor of Mathematics, University of Michigan	G 1897* (Michigan F 1903)	Ann Arbor, Mich.
Merlin Chamberlin Findlay Professor of Biology, Park College	U 1903	Parkville, Mo.
Bruce Fink Professor of Botany, Miami University	G 1899*†	Miami, Ohio
Walter J Finke Instructor in Electrical Engineering, University of Minnesota	U 1910	Minneapolis, Minn.
Cyrus H Fiske Student, Harvard Medical School	U 1910	Boston, Mass.

MINNESOTA CHAPTER

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John Joseph Flather	F 1899*†	Minneapolis, Minn.
Professor of Mechanical Engineering, University of Minnesota		
Maud Rena Fletcher	U 1903	Honolulu, H. I.
(Mrs Harold Lloyd Lyon)		
August Foss	U 1897	
(Deceased 1898)		
George Bell Frankforter	CF 1896*† (Nebraska G 1898)	Minneapolis, Minn.
Dean of School of Chemistry, University of Minnesota		[Minn.]
Francis Cowles Frary	U 1905*	Minneapolis, Minn.
Assistant Professor of Chemistry, University of Minnesota		
Hobart Dickinson Frary	U 1908	Washington, D. C.
U. S. Magnetic Survey, Yacht Carnegie		
William Hardy Frazier	F 1909	Minneapolis, Minn.
Instructor in Soils, College of Agriculture, University of Minnesota		
Dana Walter Frear	U 1909	Fort Collins, Col.
Assistant Professor of Agronomy, Colorado Agricultural College		
Jenness B Frear	U 1910	Minneapolis, Minn.
Instructor in Mechanics, College of Agriculture, University of Minnesota		
Edward Monroe Freeman	U 1898*	St. Anthony Park, St. Paul, Minn.
Professor of Botany, College of Agriculture, University of Minnesota		
Edwin Linton French	U 1902	Sault Ste. Marie, Mich.
Engineer, Soo Works, Union Carbide Company		
Ellen Clark Fullerton	U 1900	Shanghai, China
Physician, St. Elizabeth's Hospital		
Frederic William Gates	G 1908	Minneapolis, Minn.
Instructor in Mathematics, North High School		
Daniel Asher Gaumnitz	U 1904*	St. Anthony Park, St. Paul, Minn.
Assistant Professor in Husbandry, University of Minnesota		
Florence Gaumnitz	U 1910	Duluth, Minn.
Arthur Laurence Gholz	U 1901	Birmingham, Ala.
Exploring Engineer, Southern Representative for E. J. Longyear Company		
Gertrude Gibbs	U 1900	Lindsay, Cal.
(Mrs Ferdinand Meier)		
James Herbert Gill	G 1896 (Illinois F 1906)	Columbus, Ohio
Director, Columbus Trade School		
Paul Maurice Glasoe	G 1898*	Northfield, Minn.
Professor of Chemistry, St. Olaf College		
Verney Graling	U 1899	Niagara Falls, N. Y.
Electrician, Niagara Falls Power Company		
Henry Oswald Grangaard	G 1908	Douglas, N. D.
Physician		
R C Grant	U 1909	Hollis, Alaska
Mining Engineer		
Ulysses Sherman Grant	F 1898*† (Northwestern CF 1906)	Evanston, Ill.
Professor of Geology, Northwestern University		[Ill.]
Charles Frederick Grass	U 1901	Fergus Falls, Minn.
Bookkeeper, Fergus Shirt Factory		

- Samuel Bowdlear Green F 1907*†
(Deceased 1910)
- Lawrence Edmonds Griffin G 1896* Manila, P. I.
Dean College of Liberal Arts, University of the Philippines
- Emmogene (Lilley) Griffiths U 1902
(Mrs David Griffiths) (Deceased 1909)
- Benjamin Feland Groat F 1901* Massena, N. Y.
Consulting Engineer
- Frank Fitch Grout U 1904* Minneapolis, Minn.
Assistant Professor of Mineralogy, University of Minnesota
- Joseph Edward Guthrie G 1901 Ames, Ia.
Assistant Professor of Zoology, Iowa State College
- Edward Jacob Gutsche U 1904 Detroit, Mich.
Chief Chemist, Detroit Copper and Brass Rolling Mills
- Theophilus Levi Haecker F 1905 St. Anthony Park, St. Paul, Minn.
Professor of Dairy Husbandry, University of Minnesota
- Christopher Webber Hall CF 1896*† Minneapolis, Minn.
Professor of Geology and Mineralogy, University of Minnesota
- Arthur Stephen Hamilton F 1905 Minneapolis, Minn.
Clinical Instructor in Nervous and Mental Diseases, University of Minnesota
- Monroe Hanauer U 1906 Salt Lake City, Utah
Engineer, Minneapolis Steel and Machinery Company
- Everhart Percy Harding G 1901 Minneapolis, Minn.
Assistant Professor of Chemistry, University of Minnesota
- Guy Pirn brake Harrington U 1906 Washington, D. C.
Surveyor, General U. S. Land Office
- Mary Kezie Hartzell U 1909 San Luis Obispo, Cal.
Dining Room Manager, California Polytechnic School
- Henry David Haverson U 1907 Havre, Mont.
Civil Engineer
- Arthur Edwin Haynes CF 1896*† Minneapolis, Minn.
Professor of Engineering Mathematics, University of Minnesota
- Willet Martin Hays F 1902*† Washington, D. C.
Assistant Secretary of Agriculture, U. S. Department of Agriculture
- George Douglas Head F 1904 Minneapolis, Minn.
Associate Professor of Medicine, University of Minnesota
- Ernest Eugene Hemmingway F 1902 Seattle, Wash.
Physician
- Carl Albert Herrick G 1903 Minneapolis, Minn.
Consulting Engineer
- Charles Nathaniel Hewitt CF 1896†
(Deceased 1910)
- Herbert Wade Hibbard CF 1896* (Cornell G 1891) Columbia, Mo.
Professor of Mechanical Engineering, University of Missouri
- C Truman Hibbard U 1897 Minneapolis, Minn.
Secretary and Chief Engineer, Electric Machinery Company

Jessie (Stevens) Hickok (Mrs Harvey M Hickok)	U 1896	Minneapolis, Minn.
Blanche Higginbotham Teacher of Biology, High School	U 1904	Houston, Tex.
Charles Dutton Hilferty Engineer, American Locomotive Works	U 1896	Paterson, N. J.
Hibbert Winslow Hill Assistant Professor of Bacteriology, University of Minnesota	F 1905*	Minneapolis, Minn.
Catherine Hillesheim (Mrs H B Quimby)	U 1902	Reedsburg, Wis.
Clara Hillesheim	U 1902	Sleepy Eye, Minn.
Charles H Hinton (Deceased 1907)	F 1898	
William Ricketson Hoag Professor of Civil Engineering, University of Minnesota	CF 1896*† (Cornell A 1887)	Minneapolis, [Minn.]
Jay Clark Holland Chief Engineer, Wenatchee Valley Orchards Company	U 1904	Wenatchee, Wash.
Alfred Hoff Assistant City and County Physician	U 1910	St. Paul, Minn.
Edward Willet Dorland Holway Assistant Professor of Botany, University of Minnesota	F 1905*	Minneapolis, Minn.
Daisy S Hone Supervisor, Home Economics, Public Schools	G 1903	St. Cloud, Minn.
Lewis K Houlton Mining Engineer	U 1904	Douglas, Ariz.
Guy Joseph Houts Telephone Engineer, Western Electric Company	U 1901	Chicago, Ill.
Olaf Hovda Instructor in Physics, University of Minnesota	U 1904	Minneapolis, Minn.
John Howatt Electrical and Mechanical Engineer, U. S. Government	U 1904	Chicago, Ill.
N L Huff Assistant Professor of Botany, University of Minnesota	G 1906	Minneapolis, Minn.
John Adolph Hummel New England Mutual Life Insurance Company	G 1902	Minneapolis, Minn.
William Hammett Hunter Instructor in Chemistry, University of Minnesota	F 1910	Minneapolis, Minn.
Milton Byron Huntoon Engineer, Michigan State Telephone Company	U 1899	Detroit, Mich.
Frederick R Huxley Physician and Surgeon	U 1898	Faribault, Minn.
Simon Ingberg Structural Engineer, James Stuart and Company	U 1909	Chicago, Ill.
Roy Rowell Ireland Telephone Engineer, Western Electric Company	U 1901	Chicago, Ill.
Charles Freeman Jackson Engineer and Geologist, Santa Rosa Mining Company	U 1907	Sonora, Mexico

Earle Daniel Jackson	U 1905 Consulting Engineer	St. Paul, Minn.
Emily Florence Janney	U 1904 Teacher, High School	Medford, Ore.
Agnes Jaquess	U 1907 Science Teacher, High School	Albert Lea, Minn.
Albert Ernest Jenks	A 1910 Professor of Anthropology, University of Minnesota	Minneapolis, Minn.
Dagmar Christence Jensen	U 1904 Teacher of Mathematics, Manual Arts High School	Los Angeles, Cal.
John Arthur Jensen	U 1905 Civil Engineer, Water Works Department	Minneapolis, Minn.
Estelle Louise Jensen	U 1909 Assisting Scholar at University of Minnesota	Minneapolis, Minn.
Jes Peter Frederick Jensen	U 1903 Graduate Student, Cornell University	Ithaca, N. Y.
Carter Coleman Jett	F 1902 Draftsman, Pittsburgh Crucible Steel Company	Midland, Pa.
Anna Josephine Johnson	U 1908 Teacher, High School	Gaylord, Minn.
Arthur Monrad Johnson	U 1904 Deputy County Treasurer	Colfax, Wash.
A Walford Johnson	G 1909	Minneapolis, Minn.
Charles Eugene Johnson	U 1906 Instructor in Animal Biology, University of Minnesota	Minneapolis, Minn.
Edward Carl Johnson	U 1906 Pathologist, Cereal Diseases, U. S. Department of Agriculture	Washington, D. C.
Frank Edward Johnson	U 1900 (Washington CF 1907) Instructor in Electrical Engineering, University of Washington	Seattle, Wash.
Ruth Johnson	U 1908 Teacher	Birmingham, Ala.
Iver F Johnsrud	U 1903 Professor of Physics and Geometry, State Normal School	St. Cloud, Minn.
John Black Johnston	F 1907*† Professor of Comparative Neurology, University of Minnesota	Minneapolis, Minn.
Frederick Scheetz Jones	CF 1896*† Dean of Yale University	New Haven, Conn.
William Harrison Kavanaugh	F 1902 Professor of Experimental Engineering, University of Minnesota	Minneapolis, Minn.
Frank H Keller	U 1898 Metallurgist	Omak, Wash.
Earl Wallace Kelly	U 1907 Engineer, City Water and Light Department	Duluth, Minn.
Charles Hanford Kendall	G 1896 Railroad Engineer, Bureau of Engineering	Manila, P. I.
William Walker Kennedy	U 1907 Chief Chemist, Griggs Cooper and Company	St. Paul, Minn.

Ben Hur Kepner	U 1911	Port Colborne, Ont.
Chief Chemist, Maple Leaf Milling Company		
Ruth (Eddy) Keyes	U 1897	Minneapolis, Minn.
(Mrs Chas F Keyes)		
Roy Stevenson King	F 1904	Dayton, Ohio
General Superintendent, Hall-Cronan Company		
William Leonard Kinsell	U 1900	East Pittsburgh, Pa.
Superintendent Production Department, Westinghouse Machine Company		
Frank J Kircher	U 1909	Minneapolis, Minn.
Instructor in Mechanical Engineering, University of Minnesota		
William Herman Kirchner	CF 1896	Minneapolis, Minn.
Professor of Drawing and Descriptive Geometry, University of Minnesota		
Ingram Gerhard Kjosness	U 1903	Spokane, Wash.
Manager, Madison Lumber and Mill Company		
Bertram Glover Knight	U 1898	Pleasantville, N. Y.
Artist		
Annabel (Beach) Knight	U 1898	Pleasantville, N. Y.
(Mrs Bertram G Knight)		
Alois Francis Kovárik	U 1904*	Minneapolis, Minn.
Instructor in Physics, University of Minnesota		
William Frederick Kunze	U 1897	Minneapolis, Minn.
Secretary, Smith System Heating Company		
Ellen Adelia Lamoreaux	U 1901	Miles City, Wash.
(Mrs J Archie Burger)		
Maximillian Nandor Lando	U 1902	Chicago, Ill.
Chemist, Lindsay Light Company		
James Sherburne Lang	U 1896	Boston, Mass.
Superintendent of Power Plant, Boston Terminal Company		
Martin L Larsen	U 1909	South St. Paul, Minn.
Physician		
Homer Barker Latimer	U 1907	University Place, Neb.
Professor of Zoology, Nebraska Wesleyan University		
Francis P Leavenworth	CF 1896*†	Minneapolis, Minn.
Professor of Astronomy, University of Minnesota		
Clara K Leavitt	G 1900	Minneapolis, Minn.
Teacher, Central High School		
Engbert A Lee	U 1897	Perth Amboy, N. J.
Superintendent, American Smelting and Refining Company		
Thomas George Lee	F 1896*†	Minneapolis, Minn.
Professor of Anatomy, University of Minnesota		
Bessie Geraldine Leeds	U 1905	Orono, Me.
(Mrs Gordon Edwin Tower)		
Harry Alexander Leonhauser	F 1896	Montclair, N. J.
Major, United States Army		
Edward Harold LeTourneau	U 1905	Portland, Ore.
Superintendent, Railway Light and Power Company		

Charles L Lewis, Jr	U 1910 Manager, The Badger Cranberry Co.	Shell Lake, Wis.
Margo Lee Lewis	U 1908 Principal, Woman's Academy	Seoul, Korea
Emmogene Lilley (Mrs David Griffiths)	U 1902 (Deceased 1909)	
Arvid C Lindberg	G 1908 Physician	Summit, S. D.
Charles Gustav Lindelef	U 1909 Electrical Engineering	Yellowstone Park, Wyo.
Benjamin W Loye	U 1906 Engineer, American Blower Company	Detroit, Mich.
Harold Lloyd Lyon	U 1900* Botanist, Experiment Station, Hawaiian Sugar Planters' Association	Honolulu, H. I.
Maud (Fletcher) Lyon (Mrs Harold Lloyd Lyon)	U 1903	Honolulu, H. I.
Kate MacDermid	U 1897 Teacher of Chemistry, South High School	Minneapolis, Minn.
Daniel Trembly MacDougal	CF 1896*† Director, Botanical Research, Desert Laboratory, Carnegie Institution	Tucson, Ariz.
Russell Smith McBride	U 1908 Assistant Chemist, Bureau of Standards	Washington, D. C.
Edward Prosper McCarty	F 1900 Professor of Mining, University of Minnesota	Minneapolis, Minn.
Orlanna McDaniell	G 1911 Physician, State Board of Health	Minneapolis, Minn.
William McDonald	G 1907 Editor, Government of Transvaal Agricultural Journal	Pretoria, South Africa
Louis Williams McKeehan	U 1908 Instructor in Physics, University of Minnesota	Minneapolis, Minn.
Conway McMillan	CF 1896*† Agency Director, Economic Life Insurance Company	Philadelphia, Pa.
Franklin R McMillan	U 1905 Instructor in Drawing, University of Minnesota	Minneapolis, Minn.
Carl Edward Magnusson	U 1896* (Washington CF 1907) Professor of Electrical Engineering, University of Washington [Wash.	Seattle,
Gustav Alfred Magnusson	G 1908 Demonstrator of Pathology, University of Minnesota	Minneapolis, Minn.
Clarence Maland	G 1907 Physician	Minneapolis, Minn.
James Eugene Manchester	F 1905*	Moore, Mont.
Frank Melville Mason	U 1894 Physician and Surgeon	Worthington, Minn.
John Van Sickle Martenis	F 1907 Assistant Professor of Mechanical Engineering, University of Minnesota	Minneapolis, Minn.
Stanley R Maxelner	U 1909 Physician and Surgeon	Minneapolis, Minn.

Alfred David Mayo	U 1896	Chicago, Ill.
Foreign Advertising Manager, Chicago Record Herald		
James M Meany	U 1907	Monett, Mo.
Engineer, J. J. Dennigan and Company		
Gertrude (Gibbs) Meier	U 1900	Lindsay, Cal.
(Mrs Ferdinand Meier)		
R C Miller	U 1909	Stanley, N. D.
Shirley Putnam Miller	G 1904	Brookings, S. D.
Department of Zoology, South Dakota Agricultural College		
James Burt Miner	F 1907* (Illinois G 1903)	Minneapolis, Minn.
Assistant Professor of Psychology, University of Minnesota		
Alice Margaret Misz	U 1907	Minneapolis, Minn.
Instructor in Botany, University of Minnesota		
W A Moore	U 1909	St. Paul, Minn.
Charles Statham Morris	U 1902	Cara Grande, Ariz.
Manager Cara Grande Development		
Thomas Carlyle Morris	U 1908	Gatun, C. Z.
Draftsman, Engineering Department		
Charles Leo Motl	U 1910	Chicago, Ill.
Draftsman, Chicago, Milwaukee and St. Paul Railway		
Robert Hyndman Mullin	F 1905	Minneapolis, Minn.
Associate Professor of Pathology and Bacteriology, University of Minnesota		
F E Murrish	U 1909	Denver, Col.
Electrical Engineering		
Henry Francis Nachtrieb	CF 1896*†	Minneapolis, Minn.
Professor of Animal Biology, University of Minnesota		
John Wenceslaus Nekola	U 1907	Chicago, Ill.
Draftsman, Western Electric Company		
William Barrett Newhall	U 1900	Raymondville, Tex.
Manager, Southern Fruit Lands Irrigation Company		
Burt Leroy Newkirk	G 1898* (California F 1903)	Minneapolis, Minn.
Assistant Professor of Mathematics, University of Minnesota		
Edward Everett Nicholson	F 1896	Minneapolis, Minn.
Assistant Professor of Chemistry, University of Minnesota		
Bernard S Nickerson	U 1899	Glencoe, Minn.
Physician and Surgeon		
Wilhelm Nilson	U 1902	Twin Valley, Minn.
Farmer		
Lillian L Nye	G 1910	Minneapolis, Minn.
Assistant in Chemistry, University of Minnesota		
Peter Olaus Okkelberg	U 1906	Ann Arbor, Mich.
Instructor in Zoology, University of Michigan		
Joshua Edwin Emanuel Olander	U 1904	St. Paul, Minn.
Physician		
Mary Emma Olson	U 1898	Evanston, Ill.
(Mrs H M Stanford)		

Manford O Oppegard	U 1910	New London, Minn.
Physician and Surgeon, Sunnyside Hospital		
Frederick Arthur Otto	U 1904	St. Paul, Minn.
Chief Engineer, St. Paul Gas Light Company		
Robert Walter Otto	U 1904	Minneapolis, Minn.
Engineer, Andrews Heating Company		
Martin Oyen	U 1909 "	Ellsworth, Wis.
Physician and Surgeon		
Edward Parker	U 1905	Mukden, Manchuria
Experiment Station of Chinese Government		
Harleigh Parkhurst	U 1900	Westminster Station, Vt.
President, Abenague Machine Works		
Arthur Leonard Parsons	F 1904*	Lidgerwood, N. D.
Jarvis Montgomery Partridge	U 1906	Virginia, Minn.
Science Teacher, Technical High School		
Edith Marlon Patch	U 1901	Orono, Me.
Entomologist, Maine Agricultural Experiment Station		
Harriet (Wales) Patterson	U 1899	Western Springs, Ill.
(Mrs E C Patterson)		
Marjorie (Cole) Paulson	U 1904	Minneapolis, Minn.
(Mrs Clarence A Paulson)		
Harold Gould Payne	U 1906	Chicago, Ill.
Electrical Engineer, D. C. and W. B. Jackson		
Levi Beckley Pease	U 1898	Minneapolis, Minn.
Professor of Metallurgy, University of Minnesota		
William Argulus Peck	U 1906	Washington, D. C.
Bureau of Statistics, U. S. Department of Agriculture		
Ellen Martha Pendergast	U 1903	St. Joseph, Mo.
(Mrs A W Farnum)		
Edward M Pennock	U 1905	South Chicago, Ill.
Chemist, By Products Coke Company		
Andrew Peter Peterson	U 1910	Chicago, Ill.
Western Electric Company		
William Arnold Peterson	U 1906	Bard, Cal.
Superintendent, U. S. Experimental Farm		
G Leonard Pitchford	G 1910	Minneapolis, Minn.
Assistant in Chemistry, University of Minnesota		
Charles Delos Poore	U 1905 (Iowa F 1906)	Aberdeen, S. D.
Professor of Chemistry and Physics, Northern State Normal		
Orson Birney Poore	U 1908	Aurora, Minn.
Director of Manual Training, Hearling High School		
Frederick Poppe	G 1911	Minneapolis, Minn.
Assistant in Chemistry, University of Minnesota		
Frederick Harold Poppe	G 1907	Minneapolis, Minn.
Clinical Instructor in Surgery, University of Minnesota		
Alden Archibald Potter	U 1909	Washington, D. C.
Bureau of Plant Industry		

Arthur Clarence Pratt	U 1899	Helena, Mont.
Chief Electrical Engineer, Missouri River Power Company		
Arthur Prendergast	U 1903	St. Ignatius, Mont.
Civil Engineer, U. S. Reclaiming Service		
John Henry Quense	U 1901	Seattle, Wash.
Assistant District Engineer		
Irene Radcliffe (Mrs F N Edmonds)	U 1906	Minneapolis, Minn.
Francis Ramaley	G 1897* (Colorado CF 1905)	Boulder, Col.
Professor of Biology, University of Colorado		
Henry John Ramsey	U 1903	Washington, D. C.
Assistant Pathologist, Experiment Station, Bureau of Agriculture		
Louis Rask	U 1903	Schenectady, N. Y.
Designing Engineer, General Electric Company		
Robert Retzer	F 1910	Chicago, Ill.
Professor of Anatomy, University of Chicago		
Arthur Christian Ringsred	U 1906	Duluth, Minn.
Hydraulic Engineer		
Orison B Robbins	U 1903	St. Paul, Minn.
Chief Draftsman, Great Northern Railway		
Harold Eugene Robertson	F 1908	Minneapolis, Minn.
Associate Professor of Pathology, University of Minnesota		
Archer R Robison	U 1909	Glenbeg, Wickes, Mont.
Engineer, Corbin Copper Company		
Katherine Roney	U 1896	Independence, Ia.
Teacher		
Victor H Martini Roehrich	G 1910	St. Paul, Minn.
City Chemist		
Carl Otto Rosendahl	U 1901*	Minneapolis, Minn.
Professor of Botany, University of Minnesota		
Frank B Rowley	F 1911	Minneapolis, Minn.
Instructor in Descriptive Geometry, University of Minnesota		
Arthur Gordon Ruggles	F 1906*	St. Anthony Park, St. Paul, Minn.
Assistant Professor of Entomology, University of Minnesota		
Bert Russell	U 1902	Washington, D. C.
Assistant Examiner of Patents, U. S. Patent Office		
William Thomas Ryan	F 1908	Minneapolis, Minn.
Assistant Professor of Electrical Engineering, University of Minnesota		
Emil Peter Sandsten	G 1898* (Wisconsin CF 1907)	Madison, Wis.
Professor of Horticulture, University of Wisconsin		
Roscoe Frank Sanford	U 1905	San Luis, Argentina
Assistant, Southern Observatory, Carnegie Institute		
Frederick William Sardeson	G 1898*†	Minneapolis, Minn.
Assistant Professor of Geology, University of Minnesota		
Lee Arbor Scace	G 1907	Centrallia, Wash.
Chief Surgeon, Employes' Hospital		

Frederick William Schlutz	F 1911	Minneapolis, Minn.
Instructor in Pediatrics, University of Minnesota		
Gottfried Schmidt	U 1900	Sleepy Eye, Minn.
Physician and Surgeon		
Herman F Schrader	G 1903	Minneapolis, Minn.
Medical Student, University of Minnesota		
John Henry Schumacher	U 1903	Minneapolis, Minn.
Engineer		
Frederick Hughes Scott	F 1908	Minneapolis, Minn.
Assistant Professor of Physiology, University of Minnesota		
Julius Parker Sedgwick	F 1907	Minneapolis, Minn.
Instructor in Physiological Chemistry, University of Minnesota		
Francis Clinton Shenehon	F 1910*	Minneapolis, Minn.
Dean of College of Engineering, University of Minnesota		
George M Shepard	U 1909	St. Paul, Minn.
Civil Engineer, U. S. Engineer Corps		
George Defrees Shepardson	CF 1896*† (Cornell G 1889)	Minneapolis, Minn.
Professor of Electrical Engineering, University of Minnesota		
Sylvanus Carl Shipley	F 1908	Minneapolis, Minn.
Assistant Professor of Machine Construction, University of Minnesota		
Charles Franklin Shoop	F 1907	Minneapolis, Minn.
Assistant Professor of Experimental Engineering, University of Minnesota		
Royal Raiss Shumway	G 1904	Minneapolis, Minn.
Assistant Professor of Mathematics, University of Minnesota		
Charles Frederick Sidener	CF 1896	Minneapolis, Minn.
Professor of Chemistry, University of Minnesota		
Charles Peter Sigerfoos	F 1898*† (Ohio A 1911)	Minneapolis, Minn.
Professor of Zoology, University of Minnesota		
Herman L Slobin	F 1911	Minneapolis, Minn.
Instructor in Mathematics, University of Minnesota		
Byron Eton Smith	U 1907	St. Paul, Minn.
Electrical Engineer		
Ernest Vernon Smith	G 1907	Adams, Minn.
Physician		
Harry Ezra Smith	CF 1896 (Cornell C 1886)	College Station, Tex.
Assistant Professor of Engineering, Agricultural and Mechanical College		
Paul Sherburne Smith	U 1901	Red Wing, Minn.
Civil Engineer		
Roy Howard Smith	U 1906	St. Paul, Minn.
John Edward Smithson	U 1907	Chicago, Ill.
Western Electric Company		
Harry Snyder	F 1902*†	Minneapolis, Minn.
Chemist, Russell-Miller Milling Company		
Jens Johan Solhaug	U 1901	Portland, Ore.
Electrician		
W H Souba	U 1909	Hopkins, Minn.
Mechanical Engineer		

MINNESOTA CHAPTER

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Frederick J Souba	U 1910 Resident Pathologist, City Hospital	Minneapolis, Minn.
Stephen Barber Soule	U 1897 Civil Engineer	Minneapolis, Minn.
Leonard Boyd Sperry	U 1905 Draftsman, International Harvester Company	Milwaukee, Wis.
Frank Wesley Springer	G 1896* Professor of Electrical Engineering, University of Minnesota	Minneapolis, Minn.
Elmer Nelll Stacy	U 1907 Mechanical Engineer, Decarie Incinerator Company	Minneapolis, Minn.
Alma Louise Stake	U 1908 Teacher, High School	Biwablk, Minn.
Elvin Charles Stakman	U 1906 Instructor in Plant Pathology, University of Minnesota	Minneapolis, Minn.
Harold Melvin Stanford	U 1898 Editorial Department, Publishing House	Chicago, Ill.
Mary (Olson) Stanford (Mrs H M Stanford)	U 1898	Evanston, Ill.
Raymond Edward Stanton	U 1904 Mechanical Engineer, Toltz Engineering Company	St. Paul, Minn.
Jessie Eliza Stevens (Mrs Harvey M Hickok)	U 1896	Minneapolis, Minn.
Alexander Stewart	U 1904 Lawyer, President Plum Valley Railway Company	Minneapolis, Minn.
John T Stewart	F 1910	Minneapolis, Minn.
Ernest Stoppel	U 1911	Rochester, Minn.
William Stussy	U 1900 Electrical Engineer, Missouri River Power Company	Hauserlake, Mont.
Matthias Sundt	U 1909 Physician and Surgeon	Minneapolis, Minn.
Charles Stewart Sutton	U 1909 Physician and Surgeon	St. Cloud, Minn.
George Peter Svendsen	U 1908 Engineer	Minneapolis, Minn.
David Ferdinand Swenson	U 1898 Assistant Professor of Philosophy, University of Minnesota	Minneapolis, Minn.
Carl A Taylor	U 1910 Chemist, Pluto Powder Company	Ishpeming, Mich.
Harold George Taylor	U 1909 Tire Department, Railway Steel Spring Company	Chicago Heights, Ill.
Joseph Auker Thaler	U 1900* Professor of Electrical Engineering, Montana State College	Bozeman, Mont.
Edith Mighill Thomas (Deceased 1903)	U 1902	
Harriet E (Dunton) Thompson (Mrs N H Thompson)	U 1900	Grandview, Wash.

Rosamond Thompson (Mrs Charles A Bruce)	U 1901	Minneapolis, Minn.
Roy Edwin Thompson Vice President and General Manager, San Diego Telephone Co.	U 1900	San Diego, Cal.
Josephine Elizabeth Tilden Professor of Botany, University of Minnesota	G 1896*	Minneapolis, Minn.
L C Tomlinson Instructor in Electrical Engineering, Colorado School of Mines	G 1909	Golden, Col.
Ellen Torelle Lecturer and Research Worker, Natural History Museum	U 1902	Milwaukee, Wis.
Bessie (Leeds) Tower (Mrs Gordon E Tower)	U 1905	Orono, Me.
Charles Edward Tullar Assistant Examiner, U. S. Patent Office	U 1901	Washington, D. C.
Edward Leo Tuohy Physician and Surgeon, State Board of Health	U 1902	Duluth, Minn.
Carl Mugg Ungerman Engineer, Electrical Machinery Company	U 1906	Minneapolis, Minn.
Roy Albion Vickery Agent and Expert, Bureau of Entomology	G 1908	Washington, D. C.
Jay Carter Vincent Assistant Engineer, Twin City Rapid Transit Company	U 1903	Minneapolis, Minn.
Adolph W Wagner Manager, Huron Light and Power Company	U 1898	Huron, S. D.
Harriet Wales (Mrs E C Patterson)	U 1899	Western Springs, Ill.
Frank Bates Walker Resident Engineer, Great Northern Railway	U 1897	St. Paul, Minn.
George Hamilton Walker Physician and Surgeon	G 1908	Fairfax, Minn.
George Warren Walker Assistant, College of Agriculture, University of Minnesota	U 1909	Minneapolis, Minn.
George Thompson Walker Chemist, The Van Tilburg Oil Company	U 1905	Minneapolis, Minn.
Frederick Leonard Washburn Professor of Entomology, University of Minnesota	F 1905*†	Minneapolis, Minn.
Orson Monroe Washburn Cashier, State Bank	U 1897	Coburg, Ore.
Frederick Walter Webber Deputy Collector, U. S. Customs	U 1897	Minneapolis, Minn.
Ervin L Weber Engineer, Great Northern Railway	U 1906	Seattle, Wash.
John Philip Wentling Assistant Professor of Forestry, University of Minnesota	F 1909	Minneapolis, Minn.
Asa Orrin Weese Assistant Professor of Biology, University of New Mexico	U 1909	Albuquerque, N. M.
Donald McDermid Westbrook Mechanical Engineer, Oliver Iron Mining Company	U 1910	Hibbing, Minn.

- Frank Fairchild Wesbrook F 1896*† Minneapolis, Minn.
Dean of College of Medicine and Surgery, University of Minnesota
- Rodney Mott West U 1906 Minneapolis, Minn.
Instructor in Chemistry, College of Agriculture, University of Minnesota
- Joseph Peter Weyrens G 1906 Taylor, N. D.
Physician and Surgeon
- Herbert Merrill Wheeler U 1896 Chicago, Ill.
Assistant Chief Engineer, Chicago Railways Company
- William Archie Wheeler U 1900 Mitchell, S. D.
Secretary and Manager, South Dakota Improved Seed Company
- Solon Marx White F 1900* Minneapolis, Minn.
Associate Professor of Medicine, University of Minnesota
- Eugene Edgerton Whiteley U 1903 Bisbee, Ariz.
Chief Engineer, Calumet and Arizona Manufacturing Company
- H O Whittaker G 1911 Minneapolis, Minn.
Chemist, State Board of Health
- Albert Davis Wilhoit G 1906 Minneapolis, Minn.
Chemist, Pillsbury Flour Mills Company
- Fred Mortimer Williams U 1905 Chicago, Ill.
Telephone Engineer, Western Electric Company
- Wilbur S Williams U 1909 Memphis, Tenn.
Engineer, Wabash Screen Door Company
- Archie Dell Wilson U 1905 St. Anthony Park, Minn.
Superintendent of State Farmers' Institutes and Extension, University of Minnesota
- Louis Blanchard Wilson F 1900* Rochester, Minn.
Director of Laboratories, St. Mary's Hospital
- Newton Horace Winchell CF 1896*† Minneapolis, Minn.
Ex-Professor of Geology, University of Minnesota
- Herbert Woodrow F 1910 Minneapolis, Minn.
Instructor in Psychology, University of Minnesota
- Roydon Vincent Wright U 1898 New York City
Editor, American Engineering and Railroad Journal
- Louis Yager U 1900 St. Paul, Minn.
Division Engineer, Northern Pacific Railway
- Charles H Zander U 1909 Rochester, Minn.
Physician and Surgeon
- Anthony Zeleny G 1896* Minneapolis, Minn.
Professor of Physics, University of Minnesota
- Charles Zeleny U 1898* (Indiana F 1904; Illinois F 1909)
Associate Professor of Zoology, University of Illinois [Urbana, Ill.]
- Frank Zeleny U 1898 Aurora, Ill.
Assistant Superintendent of Shops, Chicago, Burlington and Quincy Railway
- John Zeleny F 1896*† Minneapolis, Minn.
Professor of Physics, University of Minnesota
- Ralph August Ziesemer U 1905 Bisbee, Ariz.
Smith and Ziesemer, Mining Engineers
- Louis Peter Zimmerman U 1908 Seattle, Wash.
Pacific Coast Manager of Perton Publishing Company

NEBRASKA CHAPTER

UNIVERSITY OF NEBRASKA, LINCOLN, NEBRASKA

Charter Dated June 24, 1897

Chapter Installed June 5, 1897

HISTORICAL SKETCH

The organization of the Nebraska Chapter in 1897 was due mainly to the efforts of Professors Fred W. Card and A. L. Candy, who had been active members of chapters elsewhere, Professor Card at Cornell University and Professor Candy at the University of Kansas. After conferring with a number of their colleagues at the University of Nebraska, a petition was presented to the General Council, asking for a charter. Official notice was received by Professor Card on June 1, 1897, that such a charter had been granted and the Chapter was accordingly organized on June 5, 1897, with thirteen charter members, all chosen from the faculty. Professor Card became the first president.

The largest number initiated in any one year was thirty-six, in 1898, the year following the organization of the Chapter; of this number twenty-five were taken from among the graduates of the university. The smallest number elected in any one year was nine in 1902, only two from the senior class being selected.

There have been held in all, since the organization of the Chapter and up to the end of the year 1909-10, seventy-three meetings, at forty of which papers and addresses were presented; the latter meetings were of three different types: those for the presentation of technical papers in which the research work of our own members was presented; meetings to which the public was invited, in which results of a more popular nature were set before them; and occasionally, especially at the mid-winter Commencement season, a similar program with a speaker invited from a sister Chapter.

Besides these meetings of the Chapter, regular and special, there have been held each year one or more functions of a social nature, either a gathering at the home of one of the members for the sake of better acquaintance with each other, or more frequently, especially in connection with the mid-winter address, or the initiation of new members, a banquet at one of the hotels, preceded by a social hour and followed by a program of after-dinner speeches.

G. D. S.

PUBLICATIONS

By-laws of the University of Nebraska Chapter of the Society of the Sigma Xi. 8 pp., n. p., n. d.

OFFICERS FOR 1911-12

President.....	EDWIN MEAD WILCOX
Vice-President.....	ROSA BOUTON
Recording Secretary.....	LAWRENCE BELL PILSBURY
Corresponding Secretary.....	ALBERT LUTHER CANDY
Treasurer.....	LOUIS BRYANT TUCKERMAN
Councilor.....	ELLERY WILLIAMS DAVIS

MEMBERSHIP ROLL

Louise Marie Allen	G 1907	Seattle, Wash.
State Seed Analyst of Washington		
Wynfred Emory Allen	G 1905	Venice, Cal.
Teacher, High School		
Billings Grinnell Almy	G 1898	Ord, Neb.
Stockman		
John Edwin Almy	F 1902*	Lincoln, Neb.
Professor of Physics, University of Nebraska		
Frederick James Alway	F 1907	Lincoln, Neb.
Head Professor of Agricultural Chemistry, University of Nebraska		
Charles Edward Anderson	G 1898	Craig, Neb.
Electrical Engineer		
William Nance Anderson	G 1908	Omaha, Neb.
Physician		
Edward John Angle	G 1898	Lincoln, Neb.
Physician		
Samuel Avery	F 1897*†	Lincoln, Neb.
Chancellor, University of Nebraska		
LeRoy Nelson Baker	G 1907	Cheyenne, Wyo.
Electrician		
Carrie Adeline Barbour	G 1901	Lincoln, Neb.
Assistant, Curator of Museum, University of Nebraska		
Eleanor Barbour	U 1910	Agate, Neb.
(Mrs Harold James Cook)		
Erwin Hinkley Barbour	CF 1897*†	Lincoln, Neb.
State Geologist and Professor of Geology, University of Nebraska		
Oscar Leonard Barnebey	G 1909	Madison, Wis.
Instructor in Chemistry, University of Wisconsin		
Franklin Davis Barker	F 1907*	Lincoln, Neb.
Associate Professor of Zoology, University of Nebraska		
Henry Walter Barre	G 1910	Clemson, S. C.
Botanist, Experiment Station, Clemson College		
Carlos Glazier Bates	G 1907	Denver, Col.
Chief of Silvics, U. S. Forest Service		
Frederick John Bates	G 1902	Washington, D. C.
Physicist, U. S. Bureau of Standards		
Hal Truman Beans	G 1900	New York City
Assistant Professor of Chemistry, Columbia University		

- Rolla Kent Beattie G 1898 Pullman, Wash.
Professor of Botany, Washington State College
- Carl Ensley Bedell G 1900 Glenova, W. Va.
Superintendent of Electric Department, Wheeling Steel and Iron Company
- Albert Thomas Bell G 1898 Baton Rouge, La.
Professor of Botany, Louisiana State University
- Harris Miller Benedict G 1898* Cincinnati, Ohio
Professor of Botany, University of Cincinnati
- Charles Abel Bennett U 1911 Omaha, Neb.
With Omaha Electric Light and Power Company
- Claudius Edmund Bennett U 1909 (Illinois G 1910) Urbana, Ill.
Research Fellow in Engineering, University of Illinois
- Nels August Bengtson G 1907 Lincoln, Neb.
Assistant Professor of Geography, University of Nebraska
- Carl Athearn Bessey G 1899 Chicago, Ill.
With H. M. Byllesby and Company
- Charles Edwin Bessey CF 1897*† Lincoln, Neb.
Head Dean and Professor of Botany, University of Nebraska
- Edward Athearn Bessey G 1898
(Deceased 1910)
- Ernst Athearn Bessey G 1908*† East Lansing, Mich.
Professor of Botany, Michigan Agricultural College
- Alice Miranda Birge U 1911 North Platte, Neb.
- Thaddeus Lincoln Bolton F 1900* Tempe, Ariz.
Professor of Psychology, Arizona State Normal
- Emil August Boostrom G 1910 Stromsburg, Neb.
Superintendent of Schools
- George Borrowman F 1908 Lincoln, Neb.
Adjunct Professor of Chemistry, University of Nebraska
- Rosa Bouton F 1897 Lincoln, Neb.
Professor of Home Economics, University of Nebraska
- John Shaw Boyce U 1911 Lincoln, Neb.
- Henry Blakeslee Boyden U 1909 Chicago, Ill.
Student, Rush Medical College
- William Charles Brenke F 1908* Lincoln, Neb.
Associate Professor of Mathematics, University of Nebraska
- Paul Lemon Brockway G 1905 Wichita, Kan.
Assistant City Engineer
- Morgan Brooks F 1899*† (Illinois CF 1903) Urbana, Ill.
Professor of Electrical Engineering, University of Illinois
- William Hand Browne, Jr F 1897*† Baltimore, Md.
Professor of English Literature, Johns Hopkins University
- Frank G Bruner G 1903* Chicago, Ill.
Assistant Director, Department of Educational Research, Board of Education
- Lawrence Bruner CF 1897*† Lincoln, Neb.
Head Professor of Entomology, University of Nebraska

NEBRASKA CHAPTER

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Edward Martin Buol	U 1909 Engineer	Seattle, Wash.
Edgar Albert Burnett	F 1902*† Dean of the College of Agriculture, University of Nebraska	Lincoln, Neb.
Esther Pearl (Hensel) Burnett (Mrs L C Burnett)	G 1905	Ames, Ia.
William Robert Calvert	A 1911 U. S. Geological Survey	Washington, D. C.
Albert Luther Candy	CF 1897*† (Kansas A 1894) Professor of Pure Mathematics, University of Nebraska	Lincoln, Neb.
Earl Vanhise Capps	G 1899 With Electric Light Company	Blair, Neb.
Fred Wallace Card	CF 1897 (Cornell G 1893) Farm Management	Sylvania, Pa.
William Bell Cartmel	G 1902* Engineer, Northern Electric Company	Montreal, Canada
Cecil Floyd Charlton	G 1908 Student, Rush Medical College	Chicago, Ill.
Carl Fred Chase	U 1910 Assistant in Farm Mechanics, Agricultural College	Manhattan, Kan.
Leon Wilson Chase	G 1904 Professor of Agricultural Engineering, University of Nebraska	Lincoln, Neb.
George Richard Chatburn	F 1897* Head Professor of Applied Mechanics, University of Nebraska	Lincoln, Neb.
Vivian Leroy Chrisler	G 1908 Instructor, University of North Carolina	Chapel Hill, N. C.
Edith (Schwartz) Clements (Mrs Frederick Edward Clements)	G 1903	Minneapolis, Minn.
Frederic Edward Clements	F 1901*† (Minnesota F 1903) Professor of Botany, University of Minnesota	Minneapolis, [Minn.]
Zeno E Crook	G 1899 Salesman	Denver, Col.
George Evert Condra	G 1898* Professor of Geography and Geology, University of Nebraska	Lincoln, Neb.
Samuel Richard Cook	G 1898* (Case CF 1904)	San Jose, Cal.
George Herbert Coons	G 1911 Research Assistant, Michigan Agricultural College	East Lansing, Mich.
Benton Dales	G 1897* Professor of Chemistry, University of Nebraska	Lincoln, Neb.
Jay Brownlee Davidson	G 1904 Professor of Agricultural Engineering, Iowa State College	Ames, Ia.
Edwin Greene Davis	U 1909 Student, Johns Hopkins Medical College	Baltimore, Md.
Byron Bennett Davis	G 1898 Physician	Omaha, Neb.

Ellery Williams Davis	CF 1897*†	Lincoln, Neb.
Dean of College of Arts and Science, University of Nebraska		
Thomas Brandenburg Davis	G 1906	Little Rock, Ark.
Arkansas Farms Company		
Warren French Day	G 1906	Boise, Ida.
Engineer, J. G. White Company		
Bruno Erdman Deblor	G 1907	Chicago, Ill.
Engineer, Sam Brown Jr. and Son		
Frank Earl Denny	G 1906	Omaha, Neb.
In business		
Harry Wilfred Doubrava	G 1897	New York City
Sales Office, Wagner Electric Company		
Jay Clinton Elder	G 1907	Berkeley, Cal.
Fellow in Physiology, University of California		
Gustavus Waldemar Elmen	G 1904	New York City
Electrical Engineer, Western Electric Company		
Clarence Emerson	G 1909	Chicago, Ill.
Student, Rush Medical College		
Rollins Adams Emerson	G 1897*†	Lincoln, Neb.
Head Professor of Horticulture, University of Nebraska		
Carl Christian Engberg	G 1898*	Lincoln, Neb.
Professor of Applied Mathematics, University of Nebraska		
William Harry England	G 1904	Washington, D. C.
Bureau of Corporations		
Iva Belle Ernsberger	G 1911	Greenville, Ill.
Professor of Mathematics, Greenville College		
Flora Grace Ernst	G 1909	Omaha, Neb.
Teacher of Botany, Brownell Hall		
Herbert Silas Evans	G 1900	Boulder, Col.
Professor of Electrical Engineering, University of Colorado		
George Lorenzo Fawcett	G 1905	Mayaguez, P. R.
Plant Pathologist, Porto Rico Experiment Station		
Olin Jerome Ferguson	G 1903 (Union F 1905)	Schenectady, N. Y.
Associate Professor of Electrical Engineering, Union College		
Ethel Content Field	G 1908	Washington, D. C.
Plant Pathologist, U. S. Department of Agriculture		
Ellery Knapton Files	G 1910	Chicago, Ill.
Head Chemist, Fox River Butter Company		
Cassius Asa Fisher	G 1898	Denver, Col.
Geologist and Engineer		
Harry Cowles Fleming	U 1909	Kalamazoo, Mich.
County Road Engineer		
Paul Darwin Foote	G 1911	
Charles Fordyce	G 1900	Lincoln, Neb.
Dean, Teachers College, University of Nebraska		

William Olivet Forman	G 1911	Havelock, Neb.
Mechanical Engineer in Charge of Burlington Drafting Room		
John Jacob Fossler	G 1902	Millard, Neb.
Physician		
Mary Louise Fossler	G 1898	Lincoln, Neb.
Adjunct Professor of Chemistry, University of Nebraska		
Clarence Jackson Frankforter	F 1910	Lincoln, Neb.
Instructor in Chemistry, University of Nebraska		
George Bell Frankforter	G 1898*† (Minnesota F 1896)	Minneapolis,
Dean, School of Chemistry, University of Minnesota [Minn.]		
Elton Fulmer	G 1898*	Pullman, Wash.
Professor of Chemistry, State College of Washington		
Mariel Clapham Gere	G 1899	Lincoln, Neb.
Teacher of Chemistry, High School		
Jesse Berthold Gibbs	G 1905	Pittsburgh, Pa.
Designer, with Westinghouse Electric and Manufacturing Company		
Melvin Randolph Gilmore	G 1911	Lincoln, Neb.
Curator of Museum, State Historical Society		
Charles Henry Gordon	F 1902*† (Washington CF 1907)	Knoxville,
Professor of Geology, University of Tennessee [Tenn.]		
Charles Newton Gould	G 1900*†	Norman, Okla.
Professor of Geology, University of Oklahoma		
Harry Webster Graybill	G 1900	Washington, D. C.
Assistant in Zoology, U. S. Department of Agriculture		
Harold Hubert Greenamyre	U 1910	Flagstaff, Ariz.
Forest Service, U. S. Department of Agriculture		
Charles Clifton Griggs	G 1898	Eureka, Utah
General Superintendent, U. S. Consolidated Mining Company		
August Ernest Guenther	F 1906†	Lincoln, Neb.
Professor of Physiology, University of Nebraska		
Robert Elton Guthrie	G 1908	Fort Barry, Cal.
First Lieutenant, Coast Artillery		
Charles Frederick Hagenow	G 1900	Chicago, Ill.
Instructor in Physics, Armour Institute of Technology		
Maurice Crowther Hall	G 1906	Washington, D. C.
Assistant Zoologist, Bureau of Animal Industry		
William Garfield Hamilton	G 1906	Omaha, Neb.
Charles Marks Hardin	U 1910	East Pittsburgh, Pa.
Westinghouse Machine Company		
Walter David Harris	G 1906	Syracuse, N. Y.
Assistant Professor of Physics, Syracuse University		
George Thomas Hargitt	G 1903* (Syracuse CF 1906)	Evanston, Ill.
Instructor in Zoology, Northwestern University		
Arthur Strong Harrington	G 1908	Albany, Ore.
Manager, Business Department, Oregon Power Company		
Leonard Lee Harter	A 1911	Washington, D. C.
Bureau of Plant Industry, Department of Agriculture		

Walter Lewers Hartzell	G 1905	Baltimore, Md.
With Westinghouse	Electric Company	
David West Hawksworth	G 1897	Montreal, Canada
Assistant to Vice President,	American Car and Foundry Company	
Frederick DeForest Heald	F 1906*†	Austin, Tex.
Head, Department	of Botany, University of Texas	
Walter Heald	G 1906	Washington, D. C.
Physics Office,	U. S. Department Agriculture	
George Grant Hedgcock	G 1901*†	Washington, D. C.
Plant Pathologist in Forestry,	U. S. Department of Agriculture	
John Logan Hershey	G 1906	Denver, Col.
	Civil Engineer	
Frederick Edward Hess	G 1903	Dallas, Tex.
Hess and Skinner, Agents,	Missouri Valley Bridge and Iron Company	
Paul Llewellyn Hibbard	G 1898	Chicago, Ill.
	Analytical Chemist	
Jay Higgins	G 1908	Monte Vista, Col.
Assistant,	U. S. Forestry Service	
Albert Ross Hill	F 1897*† (Missouri CF 1905)	Columbia, Mo.
President,	University of Missouri	
Bruce Vickroy Hill	G 1899	Chicago, Ill.
Physicist,	Chicago Telephone Company	
Martin Edward Hiltner	G 1898	Trojan, S. D.
General Manager,	Reliance Gold Mine	
Robert Silver Hiltner	F 1898*	Denver, Col.
Chief, Food and Drug Inspection	Laboratory, U. S. Department of Agriculture	
David Clark Hilton	G 1901	Lincoln, Neb.
Physician and Instructor in	Anatomy, University of Nebraska	
Harry Winfield Hinman	U 1909	Clovis, N. M.
Apprentice Instructor,	Atchison, Topeka and Santa Fe Railway	
Albert Leroy Hoagland	G 1900	Lincoln, Neb.
Engineer,	Chicago, Burlington and Quincy Railway	
Fred Wenzl Hofman	U 1910	Peru, Neb.
Superintendent,	Peru Fruit Farms	
Harry Levi Hollingworth	G 1906	New York City
Instructor in Psychology,	Columbia University	
Bertha Anita Hollister	G 1908	Portland, Ore.
Expert Seed Tester,	Portland Seed Company	
William Frank Holman	G 1906	Minneapolis, Minn.
Instructor in Physics,	University of Minnesota	
Erwin Hopt	U 1909	Lincoln, Neb.
Assistant Professor of Agronomy,	University of Nebraska	
Frank Walter Hornung	U 1911	Wilksburg, Pa.
	Electric Manufacturing Company	
Clarence John Humphrey	G 1906 (Cornell F 1907)	Madison, Wis.
Pathologist, Forest Products	Laboratory	

Walter David Hunter	F 1897*†	Washington, D. C.
Investigator, Bureau of Entomology, U. S. Department of Agriculture		
Della Elizabeth Ingram	G 1910	Washington, D. C.
Pathologist, U. S. Department of Agriculture		
Robert Melyne Isham	G 1910	Toronto, Canada
Assistant in Chemistry, Toronto University		
William Gibson Jenkins	G 1907	McCook, Neb.
Civil Engineer		
Clarence Anthony Johnson	G 1906	Lawrence, Kan.
Assistant Professor of Engineering, University of Kansas		
Earle George Johnson	G 1911	Fremont, Neb.
Valerius Horatio Kendall	G 1907	Niles, Mich.
Secretary and Sales Manager, Kawneer Manufacturing Company		
Frederick Courtland Kenyon	G 1898†	Washington, D. C.
Alvin Keyser	G 1904	Fort Collins, Col.
Professor of Agronomy, Colorado State Agricultural College		
Theo Alexander Kiesselbach	G 1908	Lincoln, Neb.
Assistant in Agronomy, University of Nebraska		
Wilbur Clinton Knight	G 1898†	
(Deceased 1903)		
Fred Kuhlmann	G 1900	Faribault, Minn.
Director of Research, State School for Feeble-minded		
George Newton Lamb	G 1910	Washington, D. C.
Forest Service, U. S. Department of Agriculture		
George Roger La Rue	G 1908 (Illinois F 1909)	Ann Arbor, Mich.
Instructor in Zoology, University of Michigan		
Joseph William Laughlin	U 1911	Lincoln, Neb.
Medical Student		
Derick Norman Lehmer	G 1899* (California F 1903)	Berkeley, Cal.
Associate Professor of Mathematics, University of California		
Albert Buell Lewis	G 1900	Chicago, Ill.
Curator, Field Columbian Museum		
Charles Lieber	G 1910	Omaha, Neb.
Physician		
Ralph Stayner Lillie	F 1903*	Philadelphia, Pa.
Instructor in Physiology and Zoology, University of Pennsylvania		
Antone Lyman Lott	G 1907	Omaha, Neb.
Superintendent, Omaha and Council Bluffs Railway		
George Andrew Loveland	F 1898*	Lincoln, Neb.
Associate Professor of Meteorology, University of Nebraska		
Rufus Ashley Lyman	G 1899	Lincoln, Neb.
Director of School of Pharmacy, University of Nebraska		
Thomas Lyttleton Lyon	CF 1897*† (Cornell F 1907)	Ithaca, N. Y.
Professor of Soil Technology, Cornell University		
Conway MacMillan	G 1898*	Minneapolis, Minn.
In Business		

Ruth Marshall	G 1907	Rockford, Ill.
Professor of Biology, Rockford College		
Wade Randall Martin	U 1911	Lincoln, Neb.
Nurseryman		
Alfred James McClatchie (Deceased 1906)	G 1898	
Harold Edgar McComb	G 1909	Lincoln, Neb.
Instructor in Physics, University of Nebraska		
Edgar Matthias Medlar	G 1911	Boston, Mass.
Student, Harvard Medical College		
Haven Metcalf	G 1902*† (Brown A 1906)	Washington, D. C.
Pathologist, Bureau of Plant Industry, U. S. Department of Agriculture		
Clark Edwin Mickey	G 1908	Lincoln, Neb.
Adjunct Professor of Mechanics, University of Nebraska		
George F Miles	G 1903	Washington, D. C.
Assistant, Pathologist, U. S. Department of Agriculture		
Alvin Augustus Miller	G 1898	Seattle, Wash.
Sales Engineer, Westinghouse Electric Company		
Frank Garner Miller	F 1906*† (Washington F 1908)	Seattle, Wash.
Professor of Forestry, University of Washington		
John Mills	G 1904	New York City
Engineer, American Telephone and Telegraph Company		
Edward Gerrard Montgomery	G 1906	Ithaca, N. Y.
Professor of Field Crops, Cornell University		
Claude William Mitchell	U 1910	Lincoln, Neb.
Fellow in Zoology, University of Nebraska		
Burton Evans Moore	F 1897*	Lincoln, Neb.
Professor of Physics, University of Nebraska		
William Henry Harrison Moore	G 1900	Martell, Neb.
Cashier, Martell State Bank		
Louis Trenchard More	F 1897*†	Cincinnati, Ohio
Dean, College of Liberal Arts, Professor of Physics, University of Cincinnati		
Robert Edouard Moritz	F 1899*† (Washington CF 1906)	Seattle, Wash.
Professor of Mathematics, University of Washington		
George Hart Morse	F 1898	Lincoln, Neb.
Professor of Electrical Engineering, University of Nebraska		
Henry Hudson Nicholson	CF 1897*†	Lincoln, Neb.
Consulting Chemical Engineer		
Hiland Bachellor Noyes	G 1898	Omaha, Neb.
Contractor		
Robert Edgar Noyes	G 1904	Brooklyn, N. Y.
Instructor in Electrical Engineering, Pratt Institute		
Patrick Joseph O'Gara	G 1902	Medford, Ore.
Expert Plant Pathologist, U. S. Department of Agriculture		
Lewis Bertie Olmstead	G 1911	Washington, D. C.
Assistant Physicist, National Bureau of Standards		

NEBRASKA CHAPTER

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Robert Bowie Owens	CF 1897*	Philadelphia, Pa.
Secretary, Franklin Institute		
Howard Coon Parmelee	G 1897	Denver, Col.
Western Editor, Metallurgical and Chemical Engineering		
Arthur Sperry Pearse	G 1904	St. Louis, Mo.
Associate Professor of Biology, St. Louis University		
Gustaf Adolph Pearson	G 1907	Flagstaff, Ariz.
Director, U. S. Forestry Service		
Edwin Rudolph Pelster	U 1909	South Omaha, Neb.
Leon J Pepperberg	A 1911	San Francisco, Cal.
Mining Geologist, Southern Pacific Company		
Roy Pepperberg	G 1908	Lincoln, Neb.
In Business, J. Pepperberg and Son		
Albert Theodore Peters	F 1900†	Springfield, Ill.
Director, State Biological Laboratory		
Alfred Olaf Peterson	G 1900	Omaha, Neb.
Physician, Lecturer in Medicine, University of Nebraska College of Medicine		
Frank Jay Phillips		
(Deceased 1911)		
William Dwight Pierce	G 1904	Dallas, Tex.
Field Agent, Bureau of Entomology, U. S. Department of Agriculture		
Walter Bowers Pillsbury	G 1898*† (Michigan CF 1903)	Ann Arbor, Mich.
Professor of Psychology, University of Michigan		
Lawrence Bell Pillsbury	F 1906	Asylum, Neb.
Adjunct Professor of Pathology, University of Nebraska		
Francis John Pipal	G 1911	Lafayette, Ind.
Assistant Botanist, Purdue University		
Raymond John Pool	G 1907*	Lincoln, Neb.
Associate Professor of Botany, University of Nebraska		
Venus Worrell Pool	G 1908	Washington, D. C.
Scientific Assistant, Bureau of Plant Industry		
Roscoe Pound	G 1898*†	Cambridge, Mass.
Professor of Law, Harvard University		
Joseph Horace Powers	F 1906	Lincoln, Neb.
Professor of Zoology, University of Nebraska		
Melvin Price	F 1905	Lafayette, Ind.
Farmer		
Fred J Pritchard	G 1904	Washington, D. C.
Physiologist, Bureau of Plant Industry		
Karl Chandler Randall	G 1897	East Pittsburgh, Pa.
Engineer, Westinghouse Electrical and Manufacturing Company		
Brayton Howard Ransom	G 1900†	Washington, D. C.
Chief Zoologist, Bureau of Animal Industry, U. S. Department of Agriculture		
Edward J Rendtorff	G 1899*	Lake Forest, Ill.
Professor of Physics and Chemistry, Lake Forest Military Academy		
Charles Russ Richards	CF 1897* (Illinois F 1911)	Urbana, Ill.
Professor of Engineering, University of Illinois		

John William Roberts	G 1909	Washington, D. C.
Pathologist, U. S. Department of Agriculture		
James Madison Rohrbaugh	G 1898	St. Augustine, Fla.
Assistant Engineer, Florida East Coast Railway		
Fay Harry Rosencrants	U 1911	Fort Collins, Col.
Instructor in Farm Mechanics, Agricultural College		
Jesse Perry Rowe	A 1903*	Missoula, Mont.
Professor of Geology, University of Montana		
Clarence Rubendall	G 1906	Omaha, Neb.
Physician		
Per Axel Rydberg	G 1898*†	New York City
Curator, New York Botanical Gardens		
Arthur William Sampson	G 1907	Washington, D. C.
Assistant, Bureau of Plant Industry, U. S. Department of Agriculture		
De Alton Saunders	G 1899*†	Washington, D. C.
Botanist, U. S. Department of Agriculture		
Ray James Scarborough	U 1909	University Place, Neb.
Assistant Professor of Geography, Nebraska Wesleyan University		
Nella Gabrielle Schlesinger (Mrs Kohn)	G 1905	Lincoln, Neb.
William Leroy Schoonover	G 1906	Chicago, Ill.
Western Electric Company		
Eck Frank Schramm	G 1908	Lincoln, Neb.
Instructor in Geology, University of Nebraska		
Benjamin Lee Seawell	G 1904	Marshall, Mo.
Professor of Biology, Missouri Valley College		
Herbert Almon Senter	G 1899	Omaha, Neb.
Head of Chemistry Department, Omaha High School		
Adolph Shane	G 1901	Ames, Ia.
Associate Professor of Electrical Engineering, Iowa State College		
Homer LeRoy Shantz	G 1905* (Missouri F 1906)	Washington, D. C.
Plant Physiologist, U. S. Department of Agriculture		
Ora James Shaw	G 1908	Lincoln, Neb.
Secretary, Lincoln Traction Company		
Roscoe Hart Shaw	F 1906 (Missouri F 1908)	Washington, D. C.
Dairy Chemist, U. S. Department of Agriculture		
Cornelius Lott Shear	G 1897*	Washington, D. C.
Plant Pathologist, U. S. Department of Agriculture		
Claude Kedzie Shedd	U 1909	Ames, Ia.
Assistant Professor of Engineering, Iowa State College		
John Lewis Sheldon	G 1899*†	Morgantown, W. Va.
Professor of Botany, West Virginia University		
Lucian Ambler Sheldon	G 1905	Schenectady, N. Y.
Engineer, General Electric Company		
Mary Emily Sinclair	G 1905	Oberlin, Ohio
Associate Professor of Mathematics, Oberlin College		

NEBRASKA CHAPTER

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Clarence Aurelius Skinner	F 1900	Lincoln, Neb.
Professor of Physics, University of Nebraska		
Arthur Bessey Smith	G 1901	Chicago, Ill.
Electrical Engineer, Automatic Electric Company		
Harry Scott Smith	G 1907	Washington, D. C.
Entomological Expert, U. S. Department of Agriculture		
Jared Gage Smith	G 1898†	Kealakekua, H. I.
David Henry Squires	U 1911	Ord, Neb.
Farmer		
Joel Stebbins	G 1899* (Illinois CF 1904)	Urbana, Ill.
Assistant Professor of Astronomy, University of Illinois		
Alvin Arthur Steele	G 1899	Fayetteville, Ark.
Professor of Mining, University of Arkansas		
John Cyprian Stevens	G 1905	Portland, Ore.
Civil Engineer		
Lucius Seymour Storrs	A 1897	New Haven, Conn.
Vice-President, The Connecticut Company		
Oscar Van Pelt Stout	CF 1897	Lincoln, Neb.
Head Professor of Civil Engineering, University of Nebraska		
Caroline Effie Stringer	G 1903	Omaha, Neb.
Teacher of Biology, High School		
LaZelle Brantly Sturdevant	G 1905	Lincoln, Neb.
Assistant Professor of Animal Pathology, University of Nebraska		
George Leonard Sullivan	G 1908	Bozeman, Mont.
Assistant Professor of Mechanical Engineering, Montana State College		
Myron Harmon Swenk	G 1907	Lincoln, Neb.
Associate Professor of Entomology, University of Nebraska		
Samuel August Swenson	G 1908	Oakland, Neb.
Physician and Surgeon		
Goodwin DeLoss Swezey	CF 1897	Lincoln, Neb.
Professor of Astronomy, University of Nebraska		
Leroy Dey Swingle	G 1906	Laramie, Wyo.
Research Parasitologist, University of Wyoming		
John Torrence Tate	G 1911	Lincoln, Neb.
Graduate Student, University of Nebraska		
Roscoe Wilfred Thatcher	F 1900*	Pullman, Wash.
Director, Experiment Station, State College of Washington		
Edwin Leroy Thomas	G 1904	
(Deceased 1907)		
Clinton Adam Thompson	U 1909	University, N. D.
Superintendent of Construction, University of North Dakota		
John James Thornber	G 1901*	Tucson, Ariz.
Professor of Biology, University of Arizona		
Claude Raymond Tillotson	U 1909	Washington, D. C.
Forest Service, U. S. Department of Agriculture		
Arthur Quincy Tool	G 1906	Berlin, Germany
Student in University of Berlin		

Robert Samuel Trumbull	F 1909	Lincoln, Neb.
Adjunct Professor of Chemistry, University of Nebraska		
James C Tucker	U 1910	Omaha, Neb.
Medical Student, University of Nebraska		
Leonard Whittier Turner	G 1905	Schenectady, N. Y.
With General Electric Company		
Fred Wilbert Upson	G 1907	Cincinnati, Ohio
Instructor in Chemistry, University of Cincinnati		
Ora Elmer Van Berg	U 1910	La Pryor, Tex.
Civil Engineer		
Alice Venters	G 1905	Syracuse, N. Y.
(Mrs Charles A Lambeth)		
Herbert Harold Waite	F 1904*	Lincoln, Neb.
Professor of Bacteriology and Pathology, University of Nebraska		
Elda Rema Walker	G 1906	Lincoln, Neb.
Assistant Professor of Botany, University of Nebraska		
Leva Belle Walker	G 1908	Lincoln, Neb.
Adjunct Professor of Botany, University of Nebraska		
Ivan Emanuel Wallin	G 1908	New York City
Instructor in Anatomy, Bellevue Hospital Medical College		
Henry Baldwin Ward	CF 1897*† (Illinois F 1909)	Urbana, Ill.
Professor of Zoology, University of Illinois		
Norton Ware	G 1904	San Francisco, Ill.
Bridge Engineer, Western Pacific Railway		
Joseph Allen Warren	G 1898	Kouts, Ind.
Manager, Grasmere Land Company		
Frank Elbert Watson	G 1901	Geneva, N. Y.
Instructor in Biology, Hobart College		
John Ernest Weaver	G 1911	Lincoln, Neb.
Graduate Student, University of Nebraska		
Herbert John Webber	G 1898*†	Ithaca, N. Y.
Professor of Plant Breeding, Cornell University		
Edith Leonore Webster	G 1907	Lincoln, Neb.
Assistant in Geology, University of Nebraska		
Vernon Villas Westgate	G 1910	Lincoln, Neb.
Assistant Professor of Horticulture, University of Nebraska		
John White	F 1897*	Terre Haute, Ind.
Professor of Chemistry, Rose Polytechnic Institute		
Edwin Mead Wilcox	F 1909	Lincoln, Neb.
Professor of Botany, University of Nebraska		
William Albert Willard	F 1903	Lincoln, Neb.
Professor of Histology, University of Nebraska		
Cyrus Vance Williams	G 1910	University Place, Neb.
Professor of Botany, Wesleyan University		
Samuel Robinson Williams	G 1903	Oberlin, Ohio
Professor of Physics, Oberlin College		

- Thomas Albert Williams G 1898
(Deceased 1900)
- Arthur Rockwell Wilson G 1907 Pueblo, Col.
With Pueblo Bridge Company
- Sherman Ray Wilson U 1910 Muskegon, Mich.
Athletic Director, High and Manual Training School
- George Samuel Wilson G 1906 (Washington F 1907) Seattle, Wash.
Assistant Professor in Mechanical Engineering, University of Washington
- Hugh Wilson G 1897 Sausalito, Cal.
Superintendent, North Western Pacific Railroad
- Donna Lavonne Withey G 1907 Clarks, Neb.
(Mrs Little)
- Walter Jacob Wohlenberg U 1910 East Pittsburgh, Pa.
Apprentice, Westinghouse Machine Company
- Robert Henry Wolcott F 1897*† Lincoln, Neb.
Acting Dean of College of Medicine and Head Professor of Zoology
- Frederick Adolph Wolf G 1908 Auburn, Ala.
Pathologist, Alabama Polytechnic Institute
- Elmer Grant Woodruff G 1901* Washington, D. C.
Geologist, U. S. Geological Survey
- Albert Fred Woods G 1898*† Minneapolis, Minn.
Dean of College of Agriculture, University of Minnesota
- Robert Thompson Young G 1905 Grand Forks, N. D.
Assistant Professor of Zoology, University of North Dakota
- John Todd Zimmer U 1910 Lincoln, Neb.
Field Expert in Entomology, University of Nebraska
- Leslie Lewis Zook G 1907 Washington, D. C.
Scientific Assistant, U. S. Department of Agriculture

OMEGA CHAPTER

OHIO STATE UNIVERSITY, COLUMBUS, OHIO

Charter Dated June 1, 1898

Chapter Installed December 10, 1998

HISTORICAL SKETCH

The Omega Chapter of the Society of the Sigma Xi was established at Ohio State University in 1898 with twenty-seven charter members who were members of the faculty.

The Chapter has grown from year to year until at the time of this writing there are some eighty-five members of the instructional staff of the Ohio State University and graduate students of this institution who are members of the Omega Chapter. Each year members are elected from the faculty, the graduate school and the senior class. One piece of published research at least is required of a faculty member before he is eligible for election to membership.

On the night of February 14, 1904, the charter and records of this Chapter were destroyed, in the burning of the chemistry building. A committee was appointed to prepare new records, by-laws, etc., but of necessity these records so restored are at best incomplete.

During the past half dozen years the Chapter has been active in research, many publications representing a large number of fields of work have come from its members. In addition this Chapter has given a series of at least three public lectures each year. These lectures are given by men noted for research and coming to us from other universities and vocations in life. Each year a public lecture is given by a member of the Society.

Four years ago the Chapter was enabled to establish a lectureship foundation for a period of five years through the generosity of a leading citizen of Columbus, Mr. J. C. Campbell. It is hoped that at the end of this period a permanent endowment fund may accrue to the society. The nine lecturers upon the J. C. Campbell Foundation thus far, and in the order of their appearance, are: Professor Starr of the University of Chicago; Doctor Wiley, U. S. Bureau of Chemistry; Professor Barnard, the University of Chicago; the late Doctor Ricketts of the University of Chicago; Doctor Munsterberg of Harvard College; Doctor Stiles of the U. S. Public Health and Marine-Hospital Service; Doctor Michelson, the Nobel prize physicist, of the University of Chicago; Professor Bailey of Cornell University; Colonel G. W. Goethals, Chief Engineer of the Panama Canal.

C. S.

OFFICERS FOR 1911-12

President.....	ROSS C PURDY
Vice-President.....	CHARLES SUMNER PLUMB
Recording Secretary.....	EDWARD FOSTER CODDINGTON
Corresponding Secretary.....	EDWARD FOSTER CODDINGTON
Treasurer.....	ALBERT HARRISON HINKLE
Councilor.....	EDWARD ORTON, JR.

MEMBERSHIP ROLL

Frederick Charles Alsdorf	A 1905	Globe, Ariz.
Consulting Engineer, General Development Company		
Catherine Emily Andrews (Mrs C W Gay)	G 1902	Swarthmore, Pa.
Charles Lincoln Arnold	F 1898	Columbus, Ohio
Associate Professor of Mathematics, Ohio State University		
Harrison Everett Ashley	U 1905*	Pittsburgh, Pa.
U. S. Geological Survey		
Myron Ansel Bachtel	U 1911	Columbus, Ohio
Instructor in Agricultural Chemistry, Ohio State University		
Ervin George Bailey	U 1903	Boston, Mass.
Engineer, Fuel Testing Company		
Frank Kelton Bailey (Deceased 1909)	F 1908	
Elmer Darwin Ball	G 1901	Logan, Utah
Director Experiment Station, Agricultural College		
Alfred Henry Barnes	U 1907	Schenectady, N. Y.
Research Laboratory, General Electric Company		
Samuel Jackson Barnett	F 1911	Columbus, Ohio
Assistant Professor of Physics, Ohio State University		
William Morton Barrows	F 1910	Columbus, Ohio
Assistant Professor of Zoology, Ohio State University		
Harold Criswell Bartholomew	U 1906	State College, Pa.
Instructor in Railway Engineering, Pennsylvania State College		
Burr A Beach	U 1909	Geneva, Ohio
Firman Edward Bear	U 1908	Columbus, Ohio
Assistant Professor of Agricultural Chemistry, Ohio State University		
James Anderson Beer	U 1903	Columbus, Ohio
City Bacteriologist		
Edward William Berger	G 1906	Gainesville, Fla.
Entomologist, Florida Agricultural Experiment Station		
Frederick Columbus Blake	G 1907* (Columbia G 1904)	Columbus, Ohio
Assistant Professor of Physics, Ohio State University		
Albert Martin Bleile	CF 1898*	Columbus, Ohio
Professor of Anatomy and Physiology, Ohio State University		
Jay George Bloom	A 1905	Mill Creek, Okla.
President, Southern Ballast Company		
Albert Victor Bleininger	U 1901 (Illinois F 1910)	Urbana, Ill.
Professor of Ceramics, University of Illinois		
Rosser Daniel Bohannon	CF 1898	Columbus, Ohio
Professor of Mathematics, Ohio State University		
Edwin Spilman Bonnett	U 1909	Fairmount, W. Va.
Cecil Ernest Boord	G 1909	Columbus, Ohio
Assistant in Chemistry, Ohio State University		

Perry Elmer Borchers	U 1907 Contracting Engineer	Phoenix, Ariz.
Perla G Bowman (Mrs Wm David Gibbs)	F 1898 New Hampshire College of Agriculture	Durham, N. H.
John Adams Bownocker	CF 1898* Professor of Geology, Ohio State University	Columbus, Ohio
James Ellsworth Boyd	CF 1898* (Cornell G 1896) Professor of Mechanics, Ohio State University	Columbus, Ohio
Joseph Nelson Bradford	CF 1898 Professor of Architecture, Ohio State University	Columbus, Ohio
Roy Brenholts	U 1907 Engineer, American Cash Register Company	Columbus, Ohio
Benjamin Talbot Brooks	U 1906 Chemist, Bureau of Science	Manila, P. I.
Herbert Barton Brooks	U 1903 Associate Physicist, U. S. Bureau of Standards	Washington, D. C
Christopher Newton Brown (Deceased 1902)	CF 1898	
Newton Henry Brown	CF 1898 (Cornell G 1898) Professor of Electrical Engineering, University of Texas	Austin, Tex.
Joseph Raymond Burkey	U 1908 Assistant in Mathematics, Agricultural College	Agricultural College, N. M.
Glenn Smith Burrell	U 1904 Assistant Engineer, U. S. Naval Station	Portsmouth, Va.
Francis Cary Caldwell	CF 1898* (Cornell U 1890) Professor of Electrical Engineering, Ohio State University	Columbus, Ohio
Leland Everett Call	U 1906 Associate Professor of Soils, Kansas State Agricultural College	Manhattan, Kan.
Lewis Warrington Chubb	U 1905 Engineer, Westinghouse Electric and Manufacturing Company	East Pittsburgh, Pa.
Wistar Morris Chubb	U 1907 Second Lieutenant, Corps of Engineers, U. S. Army	Ft. Leavenworth, Kan.
Clinton Willard Clark	G 1910 Instructor and Research Fellow, University of Pittsburgh	Pittsburgh, Pa.
Hugh Clark	G 1910 Instructor, University of Pittsburgh	Pittsburgh, Pa.
Frank Orville Clements	A 1911 Chief Chemist, National Cash Register Company	Dayton, Ohio
Edward Foster Coddington	F 1902 Associate Professor of Mechanics, Ohio State University	Columbus, Ohio
Alfred Dodge Cole	F 1902*† Professor of Physics, Ohio State University	Columbus, Ohio
Reginald Clinton Collison	U 1908 Assistant in Nutrition, Ohio Agricultural Experiment Station	Wooster, Ohio
Stanley Edgar Collison	U 1908 Chief, Chemistry Department, Florida Agricultural Experiment Station	Gainesville, Fla.

OMEGA CHAPTER

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Daniel Dale Condit	U 1909 Assistant, State Geological Survey	Columbus, Ohio
Melville Thurston Cook	F 1902* Professor of Plant Pathology, Rutgers College	New Brunswick, N. J.
Charles Proctor Cooper	U 1907 Engineer, New York Telephone Company	Albany, N. Y.
Forrest Winfred Coover	U 1900 Associate Professor of Chemistry, Iowa Agricultural College	Ames, Ia.
Edwin Charles Cotton	U 1905 Assistant Entomologist, Agricultural Experiment Station	Knoxville, Tenn.
Merlin Lee Cox	U 1911 New York Telephone Company	New York City
Francis Marion Craft	U 1905 Telephone Engineer	Riverside, Ill.
Shirley Ray Cragg	U 1909 Superintendent, International Silver Mines	Hartwell, Ohio
Evan Jay Crane	U 1911 Associate Editor, Chemical Abstracts	Columbus, Ohio
Jessie Floy Cross	U 1909	Racine, Ohio
John Ferguson Cunningham	F 1898 Editor, Ohio Farmer	Cleveland, Ohio
Leigh G Curtis	U 1898 Engineer, Baltimore and Ohio Railroad	Chicago, Ill.
Alfred Paul Dachnowski	F 1908* (Michigan G 1905) Assistant Professor of Botany, Ohio State University	Columbus, Ohio
Vernon Hayes Davis	U 1901 Assistant Professor of Horticulture and Forestry, Ohio State University	Columbus, Ohio
William Joseph Davis	U 1907 Farmer	Plain City, Ohio
Albert Watson Davison	U 1911 Assistant Chemist, Ohio State University	Columbus, Ohio
John Wright Decker (Deceased 1907)	F 1898	
Dana James Demorest	U 1907 Assistant Professor of Metallurgy, Ohio State University	Columbus, Ohio
Ralph Hugo Demorest	U 1904 Teacher of Physics, High School	Toledo, Ohio
Florence Harlow Derby (Mrs Charles E Haigler)	F 1898	Houghton, Mich.
Fredericka Detmers	F 1909 Instructor in Botany, Ohio State University	Columbus, Ohio
Malcolm Gillespie Dickey	U 1911 Student, Cornell University	Ithaca, N. Y.
Howard Dock	U 1911 William Dock and Company	Cincinnati, Ohio

Alma Drayer (Mrs C Floyd Jackson)	G 1908	Durham, N. H.
Mervin Dresbach Assistant Professor of Physiology, Cornell University	F 1902* (Cornell F 1906)	Ithaca, N. Y.
Wilbur Latimer Dubois Chief Chemist, U. S. Department of Agriculture	U 1901	Buffalo, N. Y.
Howard Edward Dyche Professor of Mathematics, University of Pittsburgh	U 1906	Pittsburgh, Pa.
Clair Albert Dye Professor of Pharmacy, Ohio State University	F 1898	Columbus, Ohio
Robert Francis Earhart Associate Professor of Physics, Ohio State University	F 1903*	Columbus, Ohio
Mary Elizabeth Edmonds University Extension Work (Agriculture)	U 1910	Columbus, Ohio
John Edward Emswiler Assistant Professor of Engineering, University of Michigan	U 1903 (Michigan F 1908)	Ann Arbor, Mich.
Frank Harvey Eno Professor of Municipal Engineering, Ohio State University	F 1902	Columbus, Ohio
Oscar Erf Professor of Dairying, Ohio State University	G 1899	Columbus, Ohio
William Lloyd Evans Associate Professor of Chemistry, Ohio State University	G 1905 (Chicago G 1904)	Columbus, Ohio
Oliver Lanard Fassig Section Director, U. S. Weather Bureau	A 1905*†	San Juan, Porto Rico
Luther Thomas Fawcett Deputy County Surveyor	U 1908	Youngstown, Ohio
Bertha (Lamme) Feicht (Mrs Russell Stemson Feicht)	A 1905	Pittsburgh, Pa.
Russell Stemson Feicht Head of Industrial Division, Westinghouse Electric Company	A 1905	Pittsburgh, Pa.
Arno Charles Fieldner Chemist, U. S. Bureau of Mines	U 1906	Pittsburgh, Pa.
Robert Fischer Teacher of Chemistry, William McKinley High School	F 1898	St. Louis, Mo.
Fred Alan Fish Professor of Electrical Engineering, Iowa State College	F 1898	Ames, Ia.
Albert Daniel Fitzgerald State House	U 1905	Reynoldsburg, Ohio
Dean Wilcox Flowers Superintendent, Consolidated Gas Company of New Jersey	U 1905	Long Branch, N. J.
Charles William Foulk Professor of Chemistry, Ohio State University	F 1898*	Columbus, Ohio
Elma (Perry) Foulk (Mrs Charles William Foulk)	U 1901	Columbus, Ohio
Edward Francis U. S. Public Health and Marine Hospital Service	A 1905	Washington, D. C.

Mark Francis	A 1905†	College Station, Tex.
Professor of Veterinary Science, Agricultural and Mechanical College		
John Nickalas Frank	U 1907	Colleton, S. C.
Engineer, Colleton Cypress Company		
Frances Rebecca Freeman	U 1910	Moorehead, Minn.
Head of Home Economics Department, State Normal School		
Thomas Ewing French	F 1898	Columbus, Ohio
Professor of Engineering Drawing, Ohio State University		
Edward Lawrence Fullmer	G 1898*	Berea, Ohio
Professor of Biology, Baldwin University		
Lee Connel Gatewood	G 1910	Chicago, Ill.
Physician, Presbyterian Hospital		
Catherine Emily (Andrews) Gay	U 1902	Swarthmore, Pa.
(Mrs C W Gay)		
Perla (Bowman) Gibbs	F 1898	Durham, N. H.
(Mrs Wm David Gibbs)		
William David Gibbs	CF 1898	Durham, N. H.
President, New Hampshire College of Agriculture		
John Chester Gibson	U 1906	Du Quoin, Ill.
Standard Engineering Company		
Paul Miller Giesy	U 1910	Columbus, Ohio
Graduate Student, Ohio State University		
Herbert Charles Gore	G 1900	Washington, D. C.
Bureau of Chemistry		
Earnest Holman Grant	U 1910	New Orleans, La.
Chemist		
George Francis Gray	U 1909	Schenectady, N. Y.
Engineer, General Electric Company		
Robert Fiske Griggs	U 1903	Columbus, Ohio
Assistant Professor of Botany, Ohio State University		
George Perry Grimsley	A 1905*	Martinsburg, W. Va.
Assistant State Geologist		
Arthur Guillaudeu	U 1911	Cincinnati, Ohio
Chemist and Assistant Superintendent, M. Werk Company		
Florence Harlow (Derby) Haigler	F 1898	Brookline, Mass.
(Mrs Charles Edmund Haigler)		
Thomas Harvey Haines	F 1905*	Columbus, Ohio
Professor of Psychology, Ohio State University		
Fred James Hale	U 1898	East Pittsburgh, Pa.
Chief Draftsman, Westinghouse Machine Company		
Ralph Edwin Hall	U 1911	Columbus, Ohio
Instructor in Agricultural Chemistry, Ohio State University		
James Chase Hambleton	G 1907	Columbus, Ohio
Teacher of Science, East High School		
Howard Spurr Hammond	U 1908	Agricultural College, N. M.
Professor of Biology, New Mexico College of Agriculture		

- Edwin George Hastings A 1905 (Wisconsin CF 1907) Madison, Wis.
Associate Professor of Bacteriology, University of Wisconsin
- Albert Henry Heller F 1902
(Deceased 1906)
- William Edwards Henderson F 1902* Columbus, Ohio
Professor of Chemistry, Ohio State University
- William Brodbeck Herms G 1906 (California F 1908) Berkeley, Cal.
Assistant Professor of Entomology, University of California
- Thomas McDougall Hills F 1910 (Chicago G 1905) Columbus, Ohio
Assistant Professor of Geology, Ohio State University
- James Stewart Hine F 1898* Columbus, Ohio
Associate Professor of Zoology, Ohio State University
- Albert Harrison Hinkle U 1907 Columbus, Ohio
Deputy Highway Commissioner
- Embury Asbury Hitchcock CF 1898 Columbus, Ohio
Professor of Experimental Engineering, Ohio State University
- John Hoffhine U 1904 Omaha, Neb.
Chemist, Union Pacific Railroad
- Emily Constance Hollister G 1910 Los Angeles, Cal.
Assistant in Physiology, State Normal School
- George David Hubbard F 1907 (Cornell G 1905) Oberlin, Ohio
Professor of Geology, Oberlin College
- Josiah Simson Hughes G 1910 Manhattan, Kan.
Kansas State Agricultural College
- John Herman Hunt F 1907 (Michigan U 1905) Columbus, Ohio
Associate Professor of Electrical Engineering, Ohio State University
- Thomas Forsyth Hunt CF 1898*† State College, Pa.
Dean of Agriculture, Pennsylvania State College
- Madone Carington Hunter U 1900 Holton, Kan.
Superintendent, Electric Light and Water Works
- Jesse Earl Hyde U 1906 Kingston, Ont.
Assistant Professor, School of Mining
- Alma Drayer Jackson G 1908 Durham, N. H.
(Mrs C Floyd Jackson)
Assistant in Zoology, New Hampshire State College
- Cicero Floyd Jackson G 1906 Durham, N. H.
Professor of Zoology and Entomology, New Hampshire State College
- Otto Emery Jennings U 1903* Pittsburgh, Pa.
Custodian, Botanical Collections, Carnegie Museum
- Horace Judd F 1898 Columbus, Ohio
Associate Professor of Experimental Engineering, Ohio State University
- Walter Raymond Judson U 1903 Mexico, D. F., Mex.
Engineer, Victor M. Braschi
- Sidney Hershberg Katz U 1909 Durham, N. H.
Instructor in Chemistry, New Hampshire College
- George Beecher Kauffman CF 1898 Columbus, Ohio
Professor of Pharmacy, Ohio State University

Frederick Keffer	A 1905	Greenwood, B. C.
General Manager, British Columbia Copper Company, Limited		
William Ashbrook Kellerman	CF 1898*	
(Deceased 1908)		
David Raymond Kellogg	G 1909	Columbus, Ohio
Instructor in Chemistry, Ohio State University		
William Frederick Kern	U 1902	Columbus, Ohio
Fuel and Supply Company		
Charles Henry Kerr	U 1909	Creighton, Pa.
Chemist, Pittsburgh Plate Glass Company		
Frederick Edward Kester	G 1898* (Cornell G 1899)	Lawrence, Kan.
Professor of Physics, University of Kansas		
Charles Franklin Kettering	U 1903	Dayton, Ohio
Electrical Engineer, Dayton Engineering Laboratories Company		
William Abner Knight	U 1900	Columbus, Ohio
Associate Professor of Machine Shop Practice, Ohio State University		
John McBride Knot	G 1906	Pittsburgh, Pa.
Pittsburgh Testing Laboratory		
Donald Alexis Kohr	U 1899	Dayton, Ohio
Superintendent, Lowe Brothers Company		
Harry Waldo Kuhn	F 1900 (Cornell G 1899)	Columbus, Ohio
Professor of Mathematics, Ohio State University		
Fred Raymond Kunkel	U 1903	Pittsburgh, Pa.
Transformer Department, Westinghouse Electric and Manufacturing Company		
Charles Henry Lake	U 1909	Hamilton, Ohio
Principal of High Schools		
Bertha A Lamme	A 1905	Pittsburgh, Pa.
(Mrs Russell Stemson Feicht)		
Benjamin G Lamme	A 1905	Pittsburgh, Pa.
Chief Engineer, Westinghouse Electric and Manufacturing Company		
Francis Leroy Landacre	F 1898*	Columbus, Ohio
Professor of Zoology, Ohio State University		
Walter Alexander Landacre	U 1901	Columbus, Ohio
Chemist, H. Braun Sons and Company		
William Rane Lazenby	CF 1898*† (Cornell A 1887)	Columbus, Ohio
Professor of Horticulture and Forestry, Ohio State University		
Paul Martyn Lincoln	A 1905*	Pittsburgh, Pa.
Head of Power Division, Westinghouse Electric and Manufacturing Company		
Clarence Philander Linville	U 1901	State College, Pa.
Associate Professor of Metallurgy, Pennsylvania State College		
Henry Curwen Lord	CF 1898	Columbus, Ohio
Professor of Astronomy, Ohio State University		
Nathaniel Wright Lord	CF 1898*†	Columbus, Ohio
Professor of Metallurgy and Mineralogy, Ohio State University		
Howard Johnson Lucas	U 1907	Chicago, Ill.
Chemist, U. S. Department of Agriculture		

John Franklin Lyman	F 1909 (Yale G 1908)	Columbus, Ohio
Associate Professor of Agricultural Chemistry, Ohio State University		
Margaret Maclean	G 1910	Columbus, Ohio
Assistant in Chemistry, Ohio State University		
William Thomas Magruder	CF 1898*†	Columbus, Ohio
Professor of Mechanical Engineering, Ohio State University		
Charles Curtis Major	F 1906*	Ames, Ia.
Associate Professor of Engineering, Iowa State College		
Edmund Sewall Manson, Jr	F 1910	Columbus, Ohio
Associate Professor of Astronomy, Ohio State University		
Clara Gould Mark	F 1911	Columbus, Ohio
Fellow in Geology, Ohio State University		
William Benjamin Marquardt	U 1905	Sharon, Pa.
Superintendent, T. H. Buhl Club		
Frederick Rupert Marshall	F 1908	Columbus, Ohio
Professor of Animal Husbandry, Ohio State University		
Charles Frederick Marvin	A 1905*†	Washington, D. C.
Professor of Meteorology, U. S. Weather Bureau		
Eugene Franklin McCampbell	F 1907	Columbus, Ohio
Professor of Bacteriology, Ohio State University		
Edna May McCleery	U 1907	Lancaster, Ohio
Teacher of Botany, High School		
Charles Walter McClure	U 1906	Columbus, Ohio
Physician, Starling Ohio Medical College		
Roy Donaldson McClure	A 1911	Jekyl Is., Ga.
George Washington McCoard	CF 1898	Columbus, Ohio
Professor of Mathematics, Ohio State University		
Arthur Howard McCray	U 1909	Washington, D. C.
Assistant, Bureau of Entomology, Department of Agriculture		
Taine Gilbert McDougal	U 1911	Spokane, Wash.
Superintendent, Clay Products Company		
James Howard McGregor	A 1911	New York City
Adjunct Professor of Zoology, Columbia University		
Roscoe Everett McIntosh	U 1902	Los Angeles, Cal.
McIntosh Electrical Company		
Marie Fansher McLellan	U 1911	Columbus, Ohio
Graduate Student at Ohio State University		
Loren Wallace McOmber	F 1910 (Michigan U 1907)	Columbus, Ohio
Assistant Professor of Electrical Engineering, Ohio State University		
William McPherson	CF 1898*†	Columbus, Ohio
Professor of Chemistry, Ohio State University		
Charles Searing Mead	U 1904	San Pedro, Isle of Pines, W. I.
Director, Isle of Pines Experiment Station		
Cyrus Alan Melick	G 1910	East Lansing, Mich.
Assistant Professor of Engineering, State Agricultural College		
Thomas Corwin Mendenhall	A 1911	Ravenna, Ohio
Retired		

Ferrand Seymour Merrill	U 1905	Pittsburgh, Pa.
Engineer, American Bridge Company		
Ralph Davenport Mershon	A 1905*†	New York City
Consulting Engineer		
Clell Lee Metcalf	U 1911	Columbus, Ohio
Assistant, Department of Zoology and Entomology, Ohio State University		
Clyde Raymond Miller	U 1911	Mt. Vernon, Ohio
Teacher		
Edgar Allan Miller	U 1910	Negaunee, Mich.
Principal, High School		
Merritt Finley Miller	U 1900 (Missouri F 1905)	Columbia, Mo.
Professor of Agronomy, University of Missouri		
William C Mills	F 1898*	Columbus, Ohio
Curator of Museum of Archaeology, Ohio State University		
Edward Russell Minns	U 1905 (Cornell F 1908)	Ithaca, N. Y.
Assistant Professor of Extension, State College of Agriculture		
Bruce Monroe Mohler	U 1909	Minneapolis, Minn.
Chemist, State Board of Health, University of Minnesota		
Ernest Ellsworth Moore	U 1907	Melones, Cal.
Electrical Engineer, Melones Mining Company		
Lou Helen Morgan (Mrs C C Vogt)	G 1910	Pittsburgh, Pa.
Sergius Morgulis	G 1898	Cambridge, Mass.
Fellow, Harvard University		
Charles Bradfield Morrey	F 1902*	Columbus, Ohio
Professor of Bacteriology, Ohio State University		
Clyde Tucker Morris	F 1908	Columbus, Ohio
Associate Professor of Structural Engineering, Ohio State University		
Max Withrow Morse	U 1902	Hartford, Conn.
Professor of Biology, Trinity College		
William Clifford Morse	G 1906	Columbus, Ohio
Instructor in Geology, Ohio State University		
Harry Clifford Mougey	U 1911	Dayton, Ohio
Chemist, Lowe Brothers Paint Company		
Gerard Archibald Murray	U 1910	Columbus, Ohio
Laboratory Assistant, Ohio State University		
John H Nold	U 1900	Columbus, Ohio
Mine Engineer, Ray and Nold		
Sidney Augustus Norton	F 1898*†	Columbus, Ohio
Emeritus Professor of Chemistry, Ohio State University		
Christian Nusbaum	G 1910	Cambridge, Mass.
Whiting Fellow in Physics, Harvard University		
Walter Colline O'Kane	G 1909	Dunham, N. H.
New Hampshire State College		
Edward Orton (Deceased 1899)	CF 1898	

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|---|---------------------------|--------------------------|
| Edward Orton, Jr | CF 1898*† | Columbus, Ohio |
| Dean, College of Engineering, Ohio State University | | |
| Herbert Osborn | F 1898*† | Columbus, Ohio |
| Professor of Zoology, Ohio State University | | |
| Horace Nelson Packard | U 1908 | Madison, Wis. |
| Instructor in Mechanical Engineering, University of Wisconsin | | |
| Charles Abraham Park | U 1907 | Fort D. A. Russell, Wyo. |
| Engineer, War Department | | |
| John Bernard Parker | G 1908 | Washington, D. C. |
| Instructor in Biology, Catholic University of America | | |
| Austin McDowell Patterson | F 1909 | Columbus, Ohio |
| Editor of Chemical Abstracts, Ohio State University | | |
| Forrest Kizer Pence | U 1907 | Zanesville, Ohio |
| Engineer, American Encaustic Tiling Company | | |
| Elma Brooks Perry | U 1901 | Columbus, Ohio |
| (Mrs Charles William Foulk) | | |
| John William Petersen | U 1903 | Canton, Ohio |
| Chief Draftsman, American Bridge Company | | |
| James McIlvane Phillips | F 1909 | Columbus, Ohio |
| Physician | | |
| Harley Martin Plum | U 1902 | Cleveland, Ohio |
| Teacher, Technical High School | | |
| Charles Sumner Plumb | F 1902*† | Columbus, Ohio |
| Professor of Animal Husbandry, Ohio State University | | |
| Edward J Pranke | U 1911 | Nashville, Tenn. |
| Technologist, American Cyanamid Company | | |
| Jean Paul Pratt | U 1906 | Wellington, Ohio |
| Homer Charles Price | U 1900 | Columbus, Ohio |
| Dean, College of Agriculture, Ohio State University | | |
| Irwin G Priest | U 1907 | Washington, D. C. |
| Assistant Physicist, Bureau of Standards | | |
| Charles Smith Prosser | F 1900*† (Cornell F 1887) | Columbus, Ohio |
| Professor of Geology, Ohio State University | | |
| Ross C Purdy | F 1908 | Columbus, Ohio |
| Professor of Ceramics, Ohio State University | | |
| Earl Berger Putt | U 1909 | Fargo, N. D. |
| Agricultural College | | |
| Modesta Quiroga | U 1904 | San Luis, Argentina |
| Samuel Eugene Rasor | U 1898 | Columbus, Ohio |
| Associate Professor of Mathematics, Ohio State University | | |
| Thomas Francis Rataiczak | U 1908 | Columbus, Ohio |
| Mechanical Engineer, Columbus Railway and Light Company | | |
| Franklin Arnold Ray | CF 1898† | Columbus, Ohio |
| Professor of Mine Engineering, Ohio State University | | |
| Ray Howard Rice | U 1904 | Portsmouth, Va. |
| Chief Draftsman, Norfolk and Southern Railway Company | | |

OMEGA CHAPTER

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Hortense Rickard	G 1910	Columbus, Ohio
Assistant in Mathematics, Ohio State University		
John Scott Riddle	U 1904	New York City
Engineer with W. D. Mershon		
Howard Sterling Riddle	A 1905	Columbus, Ohio
Vice-President, Weinman Pump Manufacturing Company		
Lumina Cotton Riddle	G 1905	Topeka, Kan.
(Mrs Bernard B Smyth) Curator, Goss Museum		
Leroy Walter Roush	G 1909	Gunnison, Utah
Engineer, Gunnison Valley Power Company		
Frank Ruhlen	U 1900	Plain City, Ohio
Farmer		
Wallace Clement Sabine	A 1905*†	Cambridge, Mass.
Dean of Scientific School, Harvard University		
John Walter Sale	G 1909	Washington, D. C.
Chemist, U. S. Department of Agriculture		
Frank Edwin Sanborn	F 1898	Columbus, Ohio
Professor of Industrial Arts, Ohio State University		
James Glossbrenner Sanders	G 1903	Madison, Wis,
College of Agriculture, University of Wisconsin		
John Henry Schaffner	F 1898*	Columbus, Ohio
Professor of Botany, Ohio State University		
Charles Felton Scott	A 1905*†	New Haven, Conn.
Professor of Electrical Engineering, Yale University		
Harry Charles Severin	G 1908	Brookings, S. D.
State Entomologist and Professor of Entomology, South Dakota State College		
Henry Herman Paul Severin	G 1908	Honolulu, H. I.
Professor of Entomology, College of Hawaii		
Charles Sheard	F 1908	Columbus, Ohio
Assistant Professor of Physics, Ohio State University		
Cree Sheets	U 1909	Columbus, Ohio
Instructor in Drawing, Ohio State University		
Paul King Sheidler	U 1909	Cody, Wyo.
Engineer		
Charles William Shepherd	U 1900	St. Louis, Mo.
Superintendent, Illinois Steel Warehouse Company		
Christopher Elias Sherman	CF 1898	Columbus, Ohio
Professor of Civil Engineering, Ohio State University		
James Edmond Shrader	G 1909	Medford, Mass.
Instructor in Physics, Tufts College		
Charles Peter Sigerfoos	A 1911	Minneapolis, Minn.
Professor of Zoology, University of Minnesota		
Trevor Burchfield Simon	U 1907	Columbus, Ohio
Engineer, Jeffrey Manufacturing Company		
Septimus Sisson	F 1902	Columbus, Ohio
Professor of Comparative Anatomy, Ohio State University		

- Charles Edward Skinner A 1905* East Pittsburgh, Pa.
Research Engineer, Westinghouse Electric and Manufacturing Company
- Agnes Smiley U 1908 Columbus, Ohio
(Mrs Lee W Funk)
- Alpheus Wilson Smith F 1909 (Wisconsin F 1906) Columbus, Ohio
Assistant Professor of Physics, Ohio State University
- Clara Smith U 1911 Columbus, Ohio
Fellow in Agricultural Chemistry, Ohio State University
- Harry Ford Smith U 1902 Lexington, Ohio
Manager, Smith Gas Power Company
- Howard Dwight Smith U 1907 New York City
Architect
- Lumina (Riddle) Smyth G 1905 Topeka, Kan.
(Mrs Bernard B Smyth)
Curator, Goss Museum
- Erwin Sohn U 1909 St. Marys, Pa.
Chief Chemist, Starkpole Battery Company
- Edward Elsworth Somermeir U 1898 Columbus, Ohio
Associate Professor of Metallurgy, Ohio State University
- Robert Browning Sosman U 1903 Washington, D. C.
Geophysical Laboratory, Carnegie Institute
- Frederick William Sperr A 1905 Houghton, Mich.
Professor of Civil and Mining Engineering, Michigan College of Mines
- Frederick William Sperr, Jr U 1906 Corey, Ala.
Chief Chemist, By-Product Coke Department, Tennessee Coal Company
- Homer Francis Staley F 1910 Columbus, Ohio
Assistant Professor of Ceramics, Ohio State University
- William Alfred Starin F 1910 Columbus, Ohio
Assistant Professor of Bacteriology, Ohio State University
- Clinton Raymond Stauffer G 1906 (Chicago G 1906) Cleveland, Ohio
Associate Professor of Geology, Western Reserve University
- Harry Walter Stertzbach U 1910 Columbus, Ohio
Instructor in Civil Engineering, Ohio State University
- Alton LeRoy Stewart U 1904
(Deceased 1906)
- Thomas Wade Stone U 1902 Ft. Wayne, Ind.
Engineer, Western Gas Construction Company
- Minnie Ava Nella Stoner F 1902 Stillwater, Okla.
Dean of Women, Agricultural and Mechanical College
- Norman Wilson Storer A 1905† Pittsburgh, Pa.
Head of Railway Division, Westinghouse Electric Company
- Frank Macy Surface U 1905 (Pennsylvania G 1906) Lexington, [Ky.
Biologist, Agricultural Experiment Station
- Harvey Adam Surface A 1911 Harrisburg, Pa.
State Zoologist, and Professor of Zoology
- Henry Earl Surface U 1907 Madison, Wis.
Chemist, U. S. Forest Service, Lecturer at University of Wisconsin

Karl Dale Swartzel	CF 1898	Columbus, Ohio
Professor of Mathematics, Ohio State University		
Otto Herman Swezey	G 1902	Honolulu, H. I.
Entomologist, Experiment Station, Sugar Planters Association		
Orland Russell Sweeney	U 1909	Philadelphia, Pa.
Instructor in Chemistry, University of Pennsylvania		
Mignon Talbot	A 1911	South Hadley, Mass.
Professor of Geology, Mt. Holyoke College		
Frederick Wellington Taylor	U 1900	Durham, N. H.
Professor of Agronomy, New Hampshire College		
Chester Henry Teegarden	U 1910	Schenectady, N. Y.
Engineer, New York Telephone Company		
Benjamin Franklin Thomas	CF 1898*†	Columbus, Ohio
Professor of Physics, Ohio State University		
Phillips Thomas	U 1904	Princeton, N. J.
Graduate Student, Princeton University		
Opal Ione Tillman	U 1905	Raleigh, N. C.
State Botanist of North Carolina		
Oswald Herman Tresselt	U 1907	Glen Cone, N. Y.
District Foreman, New York Telephone Company		
Louis Bryant Tuckerman	F 1902*	Lincoln, Neb.
Adjunct Professor of Physics, University of Nebraska		
Frederic Jared Tyler	U 1902	Perry, Ohio
Walter Lyman Upson	F 1909	Burlington, Vt.
Professor of Electrical Engineering, University of Vermont		
Clifford Steele Van Dyke	U 1902	Schenectady, N. Y.
Superintendent, Schenectady Illuminating Company		
Perry Van Ewing	U 1911	Manhattan, Kan.
Assistant to President, Kansas State Agricultural College		
Edward M Van Harlingen	F 1898	
(Deceased 1900)		
Albert Earl Vinson	A 1911	Tucson, Ariz.
Biochemist, University of Arizona		
Alfred Vivian	F 1903	Columbus, Ohio
Professor of Agricultural Chemistry, Ohio State University		
Clarence Charles Vogt	G 1906	Pittsburgh, Pa.
Assistant Professor of Chemistry, University of Pittsburgh		
Lou Helen Morgan Vogt	G 1910	Pittsburgh, Pa.
(Mrs C C Vogt)		
Joseph Henry Vosskuehler	U 1900 (Wisconsin CF 1907)	Madison, Wis.
Assistant Professor of Machine Design, University of Wisconsin		
Frank Lawton Olcott Wadsworth	A 1905*†	Pittsburgh, Pa.
President, Miller Non-Corrosive Metal Company		
Frederick Clarence Weber	A 1911	Washington, D. C.
Chemist, U. S. Department of Agriculture, Bureau of Chemistry		

Henry Adam Weber	CF 1898*†	Columbus, Ohio
Professor of Agricultural Chemistry, Ohio State University		
Charles William Weick	U 1898	New York City
Teachers College, Columbia University		
Harry Boyer Weiser	U 1911	Columbus, Ohio
Fellow in Chemistry, Ohio State University		
Bertram Whittier Wells	U 1911	Galesburg, Ill.
Instructor in Biology, Knox College		
Carl Joseph West	U 1908	Columbus, Ohio
Assistant Professor of Mathematics, Ohio State University		
Horace J Whitacre	A 1905	Cincinnati, Ohio
Physician, Professor of Surgery, University of Cincinnati		
David Stuart White	CF 1898	Columbus, Ohio
Professor of Veterinary Medicine, Ohio State University		
J D Whitmer	U 1908	Zanesville, Ohio
Ceramic Engineer, American Encaustic Tiling Company, Ltd.		
John Anderson Wilkinson	U 1903	Columbus, Ohio
Instructor in Chemistry, Ohio State University		
Ernest Daniel Williams	U 1905	Schenectady, N. Y.
Engineer, Steam Turbine Department, General Electric Company		
Harry Markley Williams	U 1908	Dayton, Ohio
Assistant Chemist, National Cash Register Company		
Samuel Byron Williams, Jr	U 1905	New York City
Telephone Engineer		
Edward Bruce Williamson	A 1905*	Bluffton, Ind.
Cashier, Wells County Bank		
Arthur Lyman Williston	CF 1898†	Boston, Mass.
Principal, Wentworth Institute		
Cecil Floyd Wilson	U 1911	Newark, N. J.
Engineer, New York Telephone Company		
James Renwick Withrow	F 1906	Columbus, Ohio
Associate Professor of Chemistry, Ohio State University		
James Graham Wittenmyer	U 1905	Peebles, Ohio
Edgar John Witzemann	G 1909	Columbus, Ohio
Assistant in Chemistry, Ohio State University		
Francis Carter Wood	A 1905*	New York City
Professor of Pathology, Columbia University		
William Roth Work	U 1905	Pittsburgh, Pa.
Assistant Professor of Electrical Engineering, Carnegie Technical Schools		
Samuel S Wyer	A 1911	Columbus, Ohio
Consulting Engineer		
Lloyd Yost	U 1902	Beloit, Wis.
Engineer, Fairbanks, Morse and Company		
Howard Patterson Zeller	U 1906	Las Esperanzas Coah, Mexico
Mining Engineer		

PENNSYLVANIA CHAPTER

UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PENNSYLVANIA

Charter Dated January 4, 1900

Chapter Installed March 20, 1900

HISTORICAL SKETCH

The establishment of the Chapter of the Society of the Sigma Xi at the University of Pennsylvania was due to the initiative of Doctor Edgar F. Smith. Late in the year 1898 a petition for a charter was signed by twelve members of the faculty and presented to the Society, but owing to delays from various causes the charter was not issued until January 4, 1900.

On January 31, 1900, a temporary organization of the petitioners was effected. On March 20, 1900, the Chairman of the Council, Professor Edward L. Nichols of Cornell, performed the initiation ceremonies and presented the charter to The Society of the Sigma Xi at the University of Pennsylvania. The first president was Professor George F. Barker, and the first recording secretary, Professor Edwin S. Crawley.

At a meeting on April 12, 1900, Professor Edgar F. Smith was elected councilor, a position which he has since continued to fill.

It is the policy of the Chapter to hold the election of new members early in the second half of senior year, so that they enjoy the regular proceedings of the society before graduation.

On the afternoon of Commencement Day this Chapter regularly unites with the Pennsylvania Chapter of Phi Beta Kappa in public exercises with a speaker invited alternately by the societies.

F. H. S.

OFFICERS FOR 1911-12

President.....	THOMAS NOLAN
Vice-President.....	ALLEN JOHN SMITH
Recording Secretary.....	GEORGE GAILEY CHAMBERS
Corresponding Secretary.....	JOHN WILLIAM HARSHBERGER
Treasurer.....	MERKEL HENRY JACOBS
Councilor.....	EDGAR FAHS SMITH

MEMBERSHIP ROLL

Alexander Crever Abbott	CF 1900*†	Philadelphia, Pa.
Professor of Hygiene, University of Pennsylvania		
William Henry Fitzgerald Addison	F1909	Philadelphia, Pa.
Demonstrator of Normal Histology, University of Pennsylvania		
Herman Carl Albrecht	U 1906	Philadelphia, Pa.
Assistant Engineer, Philadelphia Electric Company		
Henry Rihl Alburger	U 1902* (Indiana F 1908)	Bloomington, Ind.
Professor of Pathology, Indiana University		

John Howard Allen	U 1902 Physician	Portland, Me.
Walter Haskell Andrus	U 1903 Physician	Germantown, Pa.
William Henry Anthony	U 1903 Physician, Pathologist and Bacteriologist, Mühlenburg Hospital	Plainfield, N. J.
Astley Paston Cooper Ashhurst	U 1900 Instructor in Surgery, University of Pennsylvania	Philadelphia, Pa.
George Mason Astley	U 1903 Physician	Philadelphia, Pa.
John Light Atlee	U 1900 Physician, Lane General Hospital	Lancaster, Pa.
James Harold Austin	U 1905 Assistant Demonstrator of Pathology, University of Pennsylvania	Philadelphia, Pa.
Maurice Jefferis Babb	F 1908 Assistant Professor of Mathematics, University of Pennsylvania	Philadelphia, Pa.
Franklin Bache	A 1910 President, Bache-Denman Coal Company	Philadelphia, Pa.
Francis Rogers Bacon	U 1911 Assistant in Architecture, University of Pennsylvania	Philadelphia, Pa.
Empson Haines Bainbridge	U 1901 Physician	Philadelphia, Pa.
Lloyd Balderston	G 1904† Chemist, Elk Tannin Company	Ridgeway, Pa.
Clarence William Balke	G 1905 (Illinois F 1907) Assistant Professor of Chemistry, University of Illinois	Urbana, Ill.
George Frederick Barker (Deceased 1910)	CF 1900*†	
Harold Charles Barker	G 1905 Assistant Professor of Physics, University of Pennsylvania	Philadelphia, Pa.
DeWitt Dukes Barlow	U 1901 Vice-President and Engineer, Atlantic Gulf and Pacific Company	New York City
William Milton Barr	G 1905 (Iowa U 1902) Acting Manager, Andrews Chemical Company	Davenport, Ia.
Harvey Bartle	U 1902 Physician	Philadelphia, Pa.
Henry John Bartle	U 1905 Physician	Philadelphia, Pa.
Samuel Goodwin Barton	G 1906 Assistant Professor of Mathematics, Swarthmore College	Swarthmore, Pa.
Burke Morgan Baxter	F 1906 (Case U 1906) Engineer with H. B. Prather	Cleveland, Ohio
John Clemmer Bechtel	U 1908 Graduate Student, University of Pennsylvania	Philadelphia, Pa.
Waldron Cheney Beekley	U 1908 Engineer, Whitlock Coil Pipe Company	Hartford, Conn.

David Hendricks Bergey	F 1901*†	Philadelphia, Pa.
Assistant Professor of Bacteriology, University of Pennsylvania		
Herman Claude Berry	F 1907	Philadelphia, Pa.
Assistant Professor of Materials of Construction, University of Pennsylvania		
William Shaeffer Bertolet	U 1900	Reading, Pa.
	Physician	
Paul Harold Bikle	U 1904	Mifflinburg, Pa.
	Physician	
Charles Louis Billard	U 1904	Washington, D. C.
	Physician	
Joseph Cooper Birdsall	U 1911	South Starcksboro, Vt.
Walter Martinus Boehm	F 1907 (Iowa U 1902)	Philadelphia, Pa.
Instructor in Physics, University of Pennsylvania		
John Augustus Boers	U 1905	Philadelphia, Pa.
Sales Agent, General Electric Company		
Gilbert Hillhouse Boggs	G 1900*	Atlanta, Ga.
Associate Professor of Chemistry, Georgia School of Technology		
Frederick Andrew Bokop	U 1904	New York City
Sales Department, National Carbon Company		
William Henry Bower	A 1910	Philadelphia, Pa.
Henry Bower Chemical Manufacturing Company		
William Boyd, Jr	U 1907	Pittsburgh, Pa.
Architect, Alden and Harlow		
Frank Robert Braden	U 1901	Coraopolis, Pa.
	Physician	
John Francis Bresnahan	U 1910	Boston, Mass.
	Physician	
Amos Peaslee Brown	CF 1900*†	Philadelphia, Pa.
Professor of Mineralogy and Geology, University of Pennsylvania		
Albert Ridgely Brunker	U 1903	Pittsburgh, Pa.
Sales Manager, American Steel Foundries		
Charles Walts Burr	F 1910	Philadelphia, Pa.
Professor of Mental Diseases, University of Pennsylvania		
Joseph Howell Burroughs, Jr	U 1903	New York City
Otis Elevator Company		
Philip Powell Calvert	F 1904*†	Philadelphia, Pa.
Assistant Professor of Zoology, University of Pennsylvania		
John Berton Carnett	F 1900	Philadelphia, Pa.
Associate in Surgery, University of Pennsylvania		
Howard Childs Carpenter	U 1900	Philadelphia, Pa.
Physician and Instructor in Pediatrics, University of Pennsylvania		
Dana Brackenridge Casteel	G 1902* (Michigan G 1903)	Austin, Tex.
Adjunct Professor of Zoology, University of Texas		
Franklin Smith Chambers	U 1904	New Lisbon, N. J.
Engineer, J. J. White		

George Galley Chambers	F 1908	Philadelphia, Pa.
Assistant Professor of Mathematics, University of Pennsylvania		
William Henry Chapin	G 1909	Oberlin, Ohio
Associate Professor of Chemistry, Oberlin College		
Richard Burt Chillas, Jr	U 1906	Cleveland, Ohio
Chemical Engineer, National Carbon Company		
Arthur Latham Church	A 1910	Philadelphia, Pa.
Harold Sellers Colton	G 1906	Philadelphia, Pa.
Assistant in Zoology, University of Pennsylvania		
Henry Shoemaker Conard	G 1900*	Grinnell, Ia.
Professor of Botany, Grinnell College		
Edwin Grant Conklin	F 1900*†	Princeton, N. J.
Professor of Biology, Princeton University		
Isaac Baum Connor	U 1908	Pittsburgh, Pa.
Salesman, Indian Refining Company		
John Sebastian Conway	U 1900	Washington, D. C.
Chief Engineer, U. S. Lighthouse Service		
Carson Coover	U 1909	Harrisburg, Pa.
Physician		
Thomas Darlington Cope	F 1908	Philadelphia, Pa.
Instructor in Physics, University of Pennsylvania		
Edward Foulke Corson	U 1906	Cynwyd, Pa.
Physician		
John Lawrence Costello	U 1910	Philadelphia, Pa.
Instructor in Civil Engineering, University of Pennsylvania		
Edwin Schofield Crawley	CF 1900*†	Philadelphia, Pa.
Professor of Mathematics, University of Pennsylvania		
Paul Philippe Cret	F 1904†	Philadelphia, Pa.
Professor of Design, University of Pennsylvania		
Walter Lewis Croll	U 1911	Philadelphia, Pa.
Physician, Howard Hospital		
Walter Stilwell Crowell	U 1911	Philadelphia, Pa.
Research Chemist, S. S. White Dental Manufacturing Company		
Charles Aaron Culver	G 1906	Beloit, Wis.
Professor of Physics, Beloit College		
Franklin Miles Day	A 1910	Philadelphia, Pa.
Lyn Waller Deichler	F 1910	Philadelphia, Pa.
Physician		
George Edmund de Schweinitz	F 1910	Philadelphia, Pa.
Professor of Ophthalmology, University of Pennsylvania		
Samuel Jackson Dickey	U 1904	Philadelphia, Pa.
Engineer, United Gas Improvement Company		
Chester Edward Dimick	F 1906	New London, Conn.
Instructor of Cadets in Mathematics, U. S. Revenue Cutter Service		
Gideon Stanhope Dodds	G 1909 (Colorado G 1905)	Columbia, Mo.
Instructor in Zoology, University of Missouri		

Arthur Knox Doig	U 1901 Physician	Nyack, N. Y.
Henry Herbert Donaldson	F 1906*† (Chicago CF 1903) Professor of Neurology, Wistar Institute	Philadelphia, Pa.
Charles Leander Doolittle	CF 1900*† Professor of Astronomy, University of Pennsylvania	Philadelphia, Pa.
Eric Doolittle	F 1900*† Assistant Professor of Astronomy, University of Pennsylvania	Philadelphia, Pa.
Rae Shepard Dorsett	U 1900 Associate Professor of Medicine, Temple University	Philadelphia, Pa.
Ardrey Whiddin Downs	U 1904 Associate Professor of Physiology, Temple University	Philadelphia, Pa.
Arthur Wayland Dox	U 1904 (Yale G 1908) Chemist, Iowa State College, Agricultural Experiment Station	Ames, Ia.
William Easby, Jr	F 1900 (Rensselaer U 1890) Professor of Municipal Engineering, University of Pennsylvania	Philadelphia, Pa.
Burton Scott Easton	G 1900* Professor of New Testament Exegesis, Nashotah House	Nashotah, Wis.
William Hastings Easton	U 1900 Advertising Manager, Westinghouse Electric and Manufacturing Company	Pittsburgh, Pa.
William Clarence Ebaugh	G 1901* Professor of Chemistry, University of Utah	Salt Lake City, Utah
Frederick William Eckfeldt	U 1903 Assistant Superintendent, John T. Lewis and Brothers Company	Philadelphia, Pa.
Engelhardt August Eckhardt	U 1908 Instructor in Physics, Morgan Laboratory, University of Pennsylvania	Philadelphia, Pa.
David Linn Edsall	F 1908*† Professor of Medicine, Washington University	St. Louis, Mo.
Henry Edward Ehlers	U 1900 Professor of Experimental Engineering, University of Pennsylvania	Philadelphia, Pa.
Frederick Ehrenfeld	F 1900* Assistant Professor of Mineralogy, University of Pennsylvania	Philadelphia, Pa.
Robert Howard Eisenbrey	U 1903 Consulting Engineer, Emory and Eisenbrey	Philadelphia, Pa.
Eldridge Lyon Eliason	U 1905 Surgeon, University of Pennsylvania Hospital	Philadelphia, Pa.
Huger Elliott	F 1901 Director, Rhode Island School of Design	Providence, R. I.
John Thompson Emlen	U 1904 Secretary and Treasurer, Armstrong Association of Philadelphia	Philadelphia, Pa.
Charles Tyndall Evans	G 1900 Teacher of Physics and Chemistry, The Hill School	Pottstown, Pa.
Henry Brown Evans	F 1900* Professor of Mathematics, University of Pennsylvania	Philadelphia, Pa.
Henry Sebastian Evans	U 1907	West Chester, Pa.
Owen Brooks Evans	U 1900 With United Gas Improvement Company	Philadelphia, Pa.

Franz Frederick Exner	G 1903*	Northfield, Minn.
Professor of Chemistry,	Carleton College	
Howard Blaine Eynon	U 1910	Cleveland, Ohio
Chemist, National Carbon Company		
James Dobbin Faires	U 1901	Philadelphia, Pa.
Civil Engineer and Superintendent,	River and Harbor Improvement Company	
Horace West Fairlamb, Jr	U 1908	Fort Collins, Col.
Young Men's Christian Association		
Charles Falkowsky, Jr	U 1901	Scranton, Pa.
Physician		
George Fetterolf	F 1910	Philadelphia, Pa.
Demonstrator of Anatomy,	University of Pennsylvania	
Benjamin Franklin Finkel	G 1906*†	Springfield, Mo.
Professor of Mathematics and Physics,	Drury College	
George Egbert Fisher	F 1903*	Philadelphia, Pa.
Professor of Mathematics,	University of Pennsylvania	
Henry Donald Fisher	U 1904	Boston, Mass.
Chemical Expert and Engineer		
Edmund Joseph Fitzmaurice	U 1910	Philadelphia, Pa.
William John Fitzmaurice, Jr	U 1907	Philadelphia, Pa.
Moyer Springer Fleisher	U 1907	St. Louis, Mo.
Assistant, Barnard Free Skin and Cancer Hospital		
Simon Flexner	F 1900*†	New York City
Director of Laboratories,	Rockefeller Institute for Medical Research	
Frank Richards Ford	A 1910	New York City
Ford, Bacon and Davis, Engineers		
Benjamin Fox	U 1911	Philadelphia, Pa.
Henry Fox	G 1900	Collegeville, Pa.
Professor of Biology,	Ursinus College	
John Frazer	F 1908	Philadelphia, Pa.
Assistant Professor of Chemistry,	University of Pennsylvania	
Charles Harrison Frazier	F 1910	Philadelphia, Pa.
Professor of Clinical Surgery,	University of Pennsylvania	
George Clausen Friend	U 1900	Philadelphia, Pa.
Superintendent, D. B. Martin Company		
Walter Herbert Fulweiler	U 1900	Philadelphia, Pa.
Department of Tests,	United Gas Improvement Company	
Frederick Parker Gay	F 1902	Berkeley, Cal.
Professor of Pathology,	University of California	
Henry Gebhart	U 1904	Dayton, Ohio
Superintendent, Oakwood Street Railway Company		
Arthur Edwin Geiger	U 1908	Klamath Falls, Ore.
Irrigation Engineer		
Charles Herbert Gerhard	U 1905	Reading, Pa.
Physician		

James Rieser Gerhard	U 1901 Physician	Reading, Pa.
George Washington Geyer	U 1902	Cape May Court House, N. J.
John Joseph Gilbert	U 1909 Student, University of Chicago	Chicago, Ill.
Nathaniel Gildersleeve	G 1901 Associate in Bacteriology, University of Pennsylvania	Philadelphia, Pa.
Arthur Bruce Gill	U 1905 Widener Men's Hospital	Philadelphia, Pa.
Stephen Kirk Gillam (Deceased 1908)	U 1908	
Samuel Howard Gilliland	U 1904 Director, Health Laboratories of Pennsylvania	Philadelphia, Pa.
James Gillinder	F 1902 Chemist, Gillinder and Sons, Inc.	Philadelphia, Pa.
Francis Hopkinson Gilpin	U 1904 Chemist, United Gas Improvement Company	Philadelphia, Pa.
Oliver Edmunds Glenn	G 1904 Assistant Professor of Mathematics, University of Pennsylvania	Philadelphia, Pa.
William Beans Goentner	U 1901 Assistant Engineer, Department of Water Supply, Gas and Electricity	New York City
Jacob Samuel Goldbaum	U 1908 Research Chemist, Fels and Company	Philadelphia, Pa.
Albert Theodore Goldbeck	U 1906 Instructor in Civil Engineering, Lafayette College	Easton, Pa.
Paul Eckert Good	U 1902 Assistant Secretary, Southwork Foundry and Machine Company	Philadelphia, Pa.
Arthur Willis Goodspeed	CF 1900*† Professor of Physics, University of Pennsylvania	Philadelphia, Pa.
Harold Goodwin, Jr	U 1908 Assistant Superintendent, Philadelphia Electric Company	Philadelphia, Pa.
Joseph Hugh Goodwin	U 1905 Chemical Engineer, National Carbon Company	Fremont, Ohio
George Byron Gordon	F 1907 Director of University Museum, University of Pennsylvania	Philadelphia, Pa.
George Fay Gracey	U 1902 Professor of Chemistry, University of Texas	Austin, Tex.
John Howard Graham	U 1902 Professor of Chemistry, Central High School	Philadelphia, Pa.
Robert Lothead Gray	U 1904 Physician	Philadelphia, Pa.
Herlwyn Ruggles Green	U 1903 Physician	Tacoma, Wash.
Arthur Maurice Greene, Jr	F 1900* (Missouri CF 1905) Professor of Mechanical Engineering, Rensselaer Polytechnic Institute	Troy, N. Y.
Milton Jay Greenman	F 1906*† Director, Wistar Institute, University of Pennsylvania	Philadelphia, Pa.

Arthur Main Gregory	U 1906 American Bridge Company	Pencoyd, Pa.
Elisha Hall Gregory	F 1902† (Northwestern CF 1906)	Munich, [Germany]
William Edward Groben	U 1904 Architect, Department of Public Works	Philadelphia, Pa.
William Garrett Grove	U 1909 Assistant Engineer, American Bridge Company	New York City
Don Carlos Guffey	U 1905 Professor of Obstetrics, University of Kansas	Lawrence, Kan.
Roy Dykes Hall	G 1904 (Wisconsin CF 1906) With Westinghouse Lamp Company	Bloomfield, N. J.
William Charles Hall	U 1901 Physician	Allegheny, Pa.
George Hervey Hallett	F 1900* Professor of Mathematics, University of Pennsylvania	Philadelphia, Pa.
Ulysses Sherman Hanna	G 1900* (Indiana F 1905) Associate Professor of Mathematics, Indiana University	Bloomington, Ind.
Wilmer Crooks Hanson	U 1909 Engineer	New York City
John Frederick Harbeson	U 1910	Philadelphia, Pa.
Willett Lepley Hardin	F 1900*† Mt. Washington,	Los Angeles, Cal.
Melvin Reese Harkins	F 1909 Instructor in Physics, University of Pennsylvania	Philadelphia, Pa.
Daniel Roberts Harper, 3rd	U 1905 Scientist, Bureau of Standards	Washington, D. C.
Charles Custis Harrison	A 1910	Philadelphia, Pa.
John William Harshberger	F 1904*† Professor of Botany, University of Pennsylvania	Philadelphia, Pa.
William Gibbons Harskeeper	U 1903 Engineer, Westinghouse Lamp Company	Bloomfield, N. J.
Joseph Hall Hart	F 1904	Cincinnati, Ohio
Isaac Harter, Jr	U 1901 Superintendent, Barborton Works, Babcock and Wilson Company	Barborton, Ohio
Burt Laws Hartwell	G 1903*† Chemist, Rhode Island State College	Kingston, R. I.
Edmund Newton Harvey	U 1909 Instructor in Physiology, Princeton University	Princeton, N. J.
William Peter Haseman	G 1907 (Indiana F 1905) Professor of Physics, University of Oklahoma	Norman, Okla.
Shinkishi Hatai	F 1908 (Chicago CF 1903) Associate in Neurology, Wistar Institute	Philadelphia, Pa.
Charles James Hatfield	U 1900 Physician to White Haven Sanatorium	Philadelphia, Pa.
Charles Elvin Haupt, Jr	U 1905 Architectural Draftsman	Washington, D. C.

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Thaddeus Leon Euclid Haupt	U 1907	San Francisco, Cal.
Engineer, Union Iron Works Company		
Philip Bovier Hawk	F 1904 (Columbia G 1903)	Urbana, Ill.
Professor of Physiological Chemistry, University of Illinois		
William Faithful Hendrickson	F 1902	
(Deceased 1903)		
Joseph Samuel Hepburn	U 1907	Washington, D. C.
Scientific Assistant in Chemistry, U. S. Food Research Laboratory		
Carl Hering	A 1910	Philadelphia, Pa.
Rudolph Hering	A 1910	New York City
J Leon Herman	U 1909	Philadelphia, Pa.
Physician, German Hospital		
Charles John Hexamer	A 1910	Philadelphia, Pa.
Cassius Eugene Hiatt	G 1908 (Indiana G 1906)	Bloomfield, N. J.
Westinghouse Lamp Company		
Joel Henry Hildebrand	U 1903	Philadelphia, Pa.
Instructor in Chemistry, University of Pennsylvania		
Fanny Rysam Mulford Hitchcock	A 1910	Warwick, N. Y.
Walter Andrew Hitchcock	U 1910	South Bend, Ind.
Chief Engineer, Chicago, South Bend and Northern Indiana Railway Company		
William Frank Hitchens	U 1909	Philadelphia, Pa.
Raymond Mason Hobbs	U 1906	Chicago, Ill.
Draftsman, Frost and Granger, Architects		
Arthur Holmes	F 1910	Philadelphia, Pa.
Assistant Professor of Psychology, University of Pennsylvania		
Gerald Anderson Holmes	U 1908	New York City
Architect with McKim, Mead and White		
Robert Harbison Hough	G 1905	Philadelphia, Pa.
Assistant Professor of Physics, University of Pennsylvania		
William Jarrett Hough	U 1911	Ambler, Pa.
Studying Architecture in Europe		
Thomas Hovenden	U 1903	Philadelphia, Pa.
Walter Freeman Hovey	U 1909	New York City
Engineer with J. G. White and Company, Inc.		
Carl Eugene Howell	U 1905	Columbus, Ohio
Architect, Howell and Thomas, Architects		
John Ezra Hoyt	G 1906	Philadelphia, Pa.
Instructor in Physics, Drexel Institute		
George Augustus Huggins	U 1902	Philadelphia, Pa.
Actuary		
Henry Sheafe Hutchinson	U 1907	
(Deceased 1907)		
Edward Lovering Ingram	F 1908*	Philadelphia, Pa.
Professor of Railroad Engineering and Goedsy, University of Pennsylvania		

Frederick Merwin Ives	U 1900	New York City
Assistant Visiting Surgeon, Columbus Hospital		
Herbert Eugene Ives	U 1905	Cleveland, Ohio
Physicist, National Electric Lamp Association		
Howard Chapin Ives	F 1904*† (Worcester CF 1908)	Worcester,
Assistant Professor of Railroad Engineering, Worcester Polytechnic [Mass.		
Merkel Henry Jacobs	U 1905	Philadelphia, Pa.
Instructor in Zoology, University of Pennsylvania		
Michael William Jacobs, Jr	U 1907	Hamburg, Pa.
Nelson Wilson Janney	U 1906	Munich, Germany
Student of Medicine		
Herbert Spencer Jennings	F 1905	Baltimore, Md.
Professor of Zoology, Johns Hopkins University		
Jonathan Jones	U 1905	Pottstown, Pa.
Designer, McClintic-Marshall Construction Company		
Thomas Barnett Lewis Jordan	U 1900	Philadelphia, Pa.
Physician		
Dicran Hadjy Kabakjian	G 1909	Philadelphia, Pa.
Instructor in Physics, University of Pennsylvania		
Alfred Lewis Kammerer	G 1902	St. Louis, Mo.
Consulting Timber Engineer, Von Schrenk and Kammerer		
David Kapp	U 1905	Philadelphia, Pa.
Physician, Jewish Hospital		
Walter Thompson Karcher	U 1901	Philadelphia, Pa.
Architect		
Howard Thomas Karsner	F 1911	Boston, Mass.
Assistant Professor of Pathology, Harvard Medical School		
Raymond Humphrey Keil	U 1909	Chicago, Ill.
Commonwealth Edison Company		
Allen Meredith Kerr	U 1906	Pittsburgh, Pa.
Physician		
Harry F Keller	A 1910	Philadelphia, Pa.
Benjamin Witt Key	U 1909	New York City
Physician, New York Eye and Ear Infirmary, Bellevue Medical College		
Ernest Louis Alexander Kiesel	U 1901	Scranton, Pa.
Physician		
Edward Cameron Kirk	F 1910	Philadelphia, Pa.
Dean of Dental Faculty, University of Pennsylvania		
Donald Morris Kirkpatrick	U 1911	Easton, Pa.
Fred Harlen Klaer	U 1904	Philadelphia, Pa.
Physician, Instructor in Medicine, University of Pennsylvania		
Henry Jacob Klaer	U 1909	Chester, Pa.
Chemist, American Steel Foundries		
Kenneth Ralph Knapp	U 1911	Gwynedd, Pa.
Cadet Engineer, United Gas Improvement Company		

Samuel Stryker Kneass	A 1910 University Club	Philadelphia, Pa.
George Simpson Koyl	U 1909 Assistant in Architecture, University of Pennsylvania	Philadelphia, Pa.
Louis Krautter, Jr (Deceased 1909)	F 1908	
Herbert Guy Kribs	G 1907 Instructor in Zoology, University of Pennsylvania	Philadelphia, Pa.
Edward Bell Krumbhaar	U 1908 Assistant Instructor in Medicine, University of Pennsylvania	Philadelphia, Pa.
Walter Laib	U 1911 Chemical Engineer	Philadelphia, Pa.
Warren Powers Laird	CF 1900† Professor of Architecture, University of Pennsylvania	Philadelphia, Pa.
Walter Davis Lambert	G 1909 Instructor in Mathematics, University of Pennsylvania	Philadelphia, Pa.
George Paul La Roque	U 1902 Associate Professor of Surgery, University of Virginia College of Medicine	Richmond, Va.
William Thomas Leggo	U 1903 Instructor in Civil Engineering, University of Pennsylvania	Philadelphia, Pa.
Simon Levy	U 1903 Chemist, Quaker City Rubber Company	Philadelphia, Pa.
Paul Adin Lewis	U 1904 Assistant Professor of Pathology, Phipps Institute, University of Pennsylvania	Philadelphia, Pa.
Seth Andrew Light	U 1904 Physician	Lebanon, Pa.
William Linker	U 1904 Contracting Engineer	Philadelphia, Pa.
Thomas Robinson Little	U 1900 Physician and Medical Director, Southern Life and Trust Company	Greensboro, N. C.
Morton Githens Lloyd	G 1900* Technical Editor, Electrical Review	Chicago, Ill.
Leo Loeb	F 1907* Physician, Barnard Free Skin and Cancer Hospital	St. Louis, Mo.
Jacob Loewenstein	U 1902 Assistant Engineer, American Bridge Company	New York City
William Shannon Lohr	U 1909 Instructor in Civil Engineering, University of Pennsylvania	Philadelphia, Pa.
Paul R Loos	U 1907	Philadelphia, Pa.
Louis Henry Losse	U 1904 Assistant Engineer, U. S. Geological Survey, Materials Testing Laboratory	St. Louis, Mo.
Albert Kienzle Ludy	U 1903 Engineer	Flemington, N. J.
David Lincoln Luke	A 1910 Vice-President, West Virginia Pulp and Paper Company	New York City
Frederic Bowers Lysle	U 1906 With Barrett Manufacturing Company	Philadelphia, Pa.

- John Muirhead Macfarlane CF 1900*† Philadelphia, Pa.
Professor of Botany, University of Pennsylvania
- Charles Smick Mackay, Jr U 1901 Easton, Pa.
Chemist, Vulcanite Portland Cement Company
- William Humphrey Mackinney U 1903 Philadelphia, Pa.
Physician, Instructor in Medicine, University of Pennsylvania
- Paul Budd Magnuson U 1908 Chicago, Ill.
Physician, Instructor in Surgery, Rush Medical College
- Frederick Maynard Mann F 1900 (Illinois F 1910) Urbana, Ill.
Head of Architectural Department, University of Illinois
- Edward Ellsworth Marbaker U 1910 Bloomfield, N. J.
With Westinghouse Electric Company
- Edgar Marburg CF 1900† Philadelphia, Pa.
Professor of Civil Engineering, University of Pennsylvania
- Walter Ross Marriott G 1908 (Indiana U 1906) Swarthmore, Pa.
Assistant Professor of Mathematics, Swarthmore College
- John Marshall CF 1900*† Philadelphia, Pa.
Professor of Chemistry and Toxicology, University of Pennsylvania
- Stewart McCulloch Marshall U 1900 Johnstown, Pa.
Assistant Chief Engineer, Cambria Steel Company
- Edward Martin F 1910 Philadelphia, Pa.
Professor of Clinical Surgery, University of Pennsylvania
- Louis Herbert Maxson U 1910 Seattle, Wash.
- Daniel Josef McCarthy F 1901 Philadelphia, Pa.
Professor of Medical Jurisprudence, University of Pennsylvania
- William McClellan U 1900* Albany, N. Y.
Consulting Engineer, Public Service Commission
- Jesse Francis McClendon G 1905* (Missouri F 1907) New York City
Instructor in Embryology, Cornell Medical College
- Andrew Todd McClintock U 1911 Wilkes-Barre, Pa.
Physician, Wilkes-Barre City Hospital
- Thomas Potter McCutcheon, Jr U 1903 Philadelphia, Pa.
Assistant Professor of Chemistry, University of Pennsylvania
- Claude Stonecliffe McGinnis G 1911 Fredericton, N. B.
Professor of Physics, University of New Brunswick
- Henry Kerr McGoodwin F 1902 Pittsburgh, Pa.
Assistant Professor of Architecture, Carnegie Technical School
- Norman Eugene McIndoo G 1910 (Indiana G 1908) Washington, D. C.
Assistant, Bureau of Entomology
- Frank Eugene McKee U 1900 Muskegon, Mich.
Assistant Manager, Shaw Electric Crane Company
- Guy Hale McKinstry U 1910 Philadelphia, Pa.
Physician, Medical Department University of Pennsylvania
- Aaron Merzbacher U 1900 Irondale, Wash.
Western Steel Corporation

John Franklin Meyer	G 1903*	Bloomfield, N. J.
Physical Engineer, Westinghouse Lamp Company		
William Shainline Middleton	U 1911	Philadelphia, Pa.
David Isaac Miller	U 1901	Harrisburg, Pa.
	Physician	
Henry Blackburn Miller	U 1908	Rossville, Kan.
	Physician	
Sarah Pleis Miller	A 1910	Philadelphia, Pa.
Charles Karsner Mills	F 1910	Philadelphia, Pa.
Professor of Neurology, University of Pennsylvania		
Coleman Sellers Mills	U 1902	Philadelphia, Pa.
Architects, Mills and VanKirk		
William Ossian Milton	U 1902	Franklin, Pa.
Electrical Engineer, Chicago Pneumatic Tool Company		
Lewis Ferry Moody	U 1901	Troy, N. Y.
Assistant Professor of Mechanical Engineering, Rensselaer Polytechnic		
John Percy Moore	F 1900*†	Philadelphia, Pa.
Professor of Zoology, University of Pennsylvania		
Randal Morgan	A 1910	Philadelphia, Pa.
With United Gas Improvement Company		
Max Philip Morrison	U 1906	Trenton, N. J.
With Trenton Iron Company		
Jay Bird Moyer	F 1900	Philadelphia, Pa.
Professor of Chemistry and Metallurgy, Penn College of Dental Surgery		
John Hughes Müller	G 1910	Philadelphia, Pa.
Instructor in Chemistry, University of Pennsylvania		
John Raymond Murlin	G 1900*	New York City
Assistant Professor of Physiology, Cornell University Medical School		
Lewis Irving Neikirk	G 1903* (Illinois F 1906)	Seattle, Wash.
Instructor in Mathematics, University of Washington		
James Allen Nelson	F 1905*	Washington, D. C.
Scientist, U. S. Bureau of Entomology		
Harry Newmayer	U 1911	
Karl Nibecker	F 1909	Pittsburgh, Pa.
Pittsburgh Representative, Southwark Foundry and Machine Company		
Verner Nisbet	F 1905	Kansas City, Mo.
With American Biologic Company		
Thomas Nolan	F 1901	Philadelphia, Pa.
Professor of Architecture, University of Pennsylvania		
Arthur Miller Northrup	U 1902	Ashley, Pa.
	Physician	
John Budd Nutt	U 1911	Philadelphia, Pa.
Physician, University of Pennsylvania Hospital		
Thornton Oakley	U 1902	Philadelphia, Pa.
	Artist	

Charles Malden Oman	U 1901 Surgeon, U. S. Naval Hospital	Brooklyn, N. Y.
Alexander Hay O'Neal	U 1905 Physician	Wayne, Pa.
Charles Francis Osborne	F 1904 (Cornell F 1887) Professor of History of Architecture, University of Pennsylvania	Philadelphia, Pa.
Louis O'Shaughnessy	F 1909 Instructor in Mathematics, University of Pennsylvania	Philadelphia, Pa.
Harry Ottinger	U 1905 With Cambria Steel Company	Johnstown, Pa.
George Whitney Outerbridge	U 1907 Physician	Philadelphia, Pa.
Edward Asa Partridge	A 1910	Philadelphia, Pa.
Carl Van Schaick Patterson	U 1911 Chemical Engineer	Philadelphia, Pa.
Richard Mills Pearce, Jr	F 1902*† Professor of Medicine, University of Pennsylvania	Philadelphia, Pa.
Leonard Pearson (Deceased 1909)	CF 1900*† (Cornell U 1888)	
Ralph Pemberton	F 1910 Assistant Instructor in Chemistry, University of Pennsylvania	Philadelphia, Pa.
Mary Engle Pennington	A 1910 Scientist, Bureau of Chemistry	Washington, D. C.
Charles Bingham Penrose	A 1910	Philadelphia, Pa.
William Pepper	F 1908 Assistant Professor of Clinical Pathology, University of Pennsylvania	Philadelphia, Pa.
Frank Edson Perkins	F 1901 Architect	New York City
Everett Franklin Phillips	G 1904* Scientist, U. S. Bureau of Entomology	Washington, D. C.
George Arthur Piersol	F 1900*† Professor of Anatomy, University of Pennsylvania	Philadelphia, Pa.
George Morris Piersol	U 1902 Physician, Instructor in Medicine, University of Pennsylvania	Philadelphia, Pa.
Lewis Frederick Pilcher	F 1900 Professor of Art, Vassar College	Poughkeepsie, N. Y.
Robert Mackey Pitts	U 1910 Engineer, Riverside Traction Company	Riverside, N. J.
Haviland Hull Platt	U 1909 With Fels-Naptha Soap Company	Philadelphia, Pa.
George William Plummer	G 1910 Instructor in Chemistry, University of Pennsylvania	Philadelphia, Pa.
Edward Pollitt	U 1907 With American Bridge Company	Pencoyd, Pa.
Frank Ethelwulf Powers	U 1908 Engineer, Eastern Steel Company	Pottsville, Pa.

Clyde Beethoven Pyle	U 1911	Philadelphia, Pa.
Instructor in Civil Engineering, University of Pennsylvania		
Snowden Bayard Redfield	U 1902	Phillipsburg, N. J.
Engineer of Tests, Ingersoll-Rand Company		
Martin Emil Rehfuß	U 1909	Paris, France
Resident Physician, American Hospital of Paris		
Edward Tyson Reichert	F 1910	Philadelphia, Pa.
Professor of Physiology, University of Pennsylvania		
Homer Jonas Rhode	U 1901	Reading, Pa.
Physician, Reading Hospital		
Horace Clark Richards	F 1900*	Philadelphia, Pa.
Professor of Physics, University of Pennsylvania		
William Waddell Richardson	U 1902	Norristown, Pa.
Chief Physician, State Hospital for Insane		
Webster Luther Rieser	U 1910	Philadelphia, Pa.
Instructor in Mechanical Engineering, University of Pennsylvania		
David Riesman	F 1910	Philadelphia, Pa.
Assistant Professor of Medicine, University of Pennsylvania		
Damaso Rivas	F 1911	Philadelphia, Pa.
Assistant Director of Laboratory of Tropical Medicine, University of Pennsylvania		
George Chapin Robeson	U 1910	Atlanta, Ga.
Instructor, Georgia School of Technology		
Howard Needham Robinson	U 1901	Lawrenceville, Ill.
Chemist		
George Ward Rockwell	G 1900	Philadelphia, Pa.
Student in Medicine, University of Pennsylvania		
Allen Rogers	G 1902	Brooklyn, N. Y.
In Charge of Industrial Chemistry, Pratt Institute		
Frank Henkels Rogers	U 1906	Philadelphia, Pa.
Mechanical Engineer, I. P. Morris Company		
Edward Chapin Romine	U 1910	Harrisburg, Pa.
Special Industrial Representative, United Gas Improvement Company		
George Rosengarten	U 1908	Philadelphia, Pa.
Instructor in Science, Central Manual Training School		
George David Rosengarten	A 1910	Philadelphia, Pa.
Walter Edward Rosengarten	U 1911	Philadelphia, Pa.
Instructor in Civil Engineering, University of Pennsylvania		
Joseph Rosin	U 1909	Philadelphia, Pa.
Chemist, Powers, Weightman, Rosengarten Company		
Samuel Holcomb Ross	U 1903	Omaha, Neb.
Chemist		
William Lee Rowland	A 1910	Philadelphia, Pa.
Samuel Archer Rulon, Jr	U 1909	Phoenixville, Pa.
Physician, Phoenixville Hospital		
Thomas Arthur Rutherford	U 1907 (Illinois G 1907)	Clarks Summit, Pa.
Physician, Hillside Home		

Frederick Hollister Safford	F 1904*	Philadelphia, Pa.
Assistant Professor of Mathematics, University of Pennsylvania		
Walter Samans	U 1905	Greenville, Pa.
Assistant Engineer, Bessemer and Lake Erie Railroad		
Charles Lawrence Sargent	G 1900	Newark, N. J.
Chemist, Murphy Varnish Company		
Albert Carl Sautter	U 1900	Philadelphia, Pa.
Physician		
Gordon Joel Saxon	U 1908	Philadelphia, Pa.
Physician		
Harry Abraham Schatz	U 1905	Philadelphia, Pa.
First Assistant in Bacteriology, University of Pennsylvania		
Hugo Schlatter	U 1904	Pittsburgh, Pa.
Chemist, U. S. Geological Survey		
Howard Gustav Schleiter	U 1905	Pittsburgh, Pa.
Physician		
Adolph William Schramm	F 1902	Philadelphia, Pa.
President, Electro Dental Manufacturing Company		
William Magill Schultz	U 1905	Tsinan, Shantung, China
Physician		
Henry Arthur Schwab	F 1910	Pittsburgh, Pa.
Instructor in Architecture, Carnegie Technical Schools		
Isaac Joachim Schwatt	F 1900*†	Philadelphia, Pa.
Professor of Mathematics, University of Pennsylvania		
Alfred Newlin Seal	A 1910	Germantown, Philadelphia, Pa.
Horace Wells Sellers	A 1910	Ardmore, Pa.
Franklin Heverin Shakespeare	U 1901	New York City
With the Carter Fire Ball Company		
Owen Louis Shinn, Jr	F 1901*	Philadelphia, Pa.
Assistant Professor of Chemistry, University of Pennsylvania		
Barton Presley Sibole	U 1911	Buffalo, N. Y.
Machinist, Pierce-Arrow Motor Car Company		
Jacob George Silverman	U 1904	Philadelphia, Pa.
Physician		
Fred Lester Simon	U 1911	Philadelphia, Pa.
Edgar Arthur Singer, Jr	F 1902*	Philadelphia, Pa.
Professor of Philosophy, University of Pennsylvania		
Francis Wharton Sinkler	U 1900	Philadelphia, Pa.
Physician		
James Mortimer Skinner	U 1911	Philadelphia, Pa.
Allen John Smith	F 1905*†	Philadelphia, Pa.
Professor of Pathology, University of Pennsylvania		
Arthur Thomas Smith	U 1906	Philadelphia, Pa.
Draftsman		
Burnett Smith	F 1904* (Syracuse F 1907)	Syracuse, N. Y.
Assistant Professor of Geology, Syracuse University		

Charles Meldrum Smith	U 1910	Washington, D. C.
Assistant Chemist, Bureau of Chemistry, Department of Agriculture		
Edgar Fahs Smith	CF 1900*†	Philadelphia, Pa.
Professor of Chemistry, University of Pennsylvania		
Francis Palmer Smith	U 1907	Atlanta, Ga.
Professor of Architecture, Georgia School of Technology		
George Lathrop Smith	U 1908	Philadelphia, Pa.
Livingston Smith	U 1901	Philadelphia, Pa.
Architect, Karcher and Smith		
Ralph Ogden Smith	G 1905	New Brunswick, N. J.
Associate Professor of Chemistry, Rutgers College		
Stanley Smith	U 1910	Pottstown, Pa.
Designer, McClintic-Marshall Construction Company		
William Jones Smith	U 1903	Chicago, Ill.
Architect		
Henry Wilson Spangler	F 1904*†	Philadelphia, Pa.
Professor of Mechanical Engineering, University of Pennsylvania		
Christian George Spoerl	U 1903	Philadelphia, Pa.
Architect		
J Verne Stanford	F 1904	Philadelphia, Pa.
Assistant Professor of Mechanical Engineering, University of Pennsylvania		
William Parvin Starr	U 1905	Havre de Grace, Md.
Transitman, Baltimore and Ohio Railroad		
John Barr Stauffer	G 1909	Philadelphia, Pa.
Graduate Student in Mathematics, University of Pennsylvania		
Carl Rossow Steinke	U 1909	Rochester, Minn.
Physician, St. Mary's Hospital		
Alfred Stengel	F 1910	Philadelphia, Pa.
Professor of Clinical Medicine, University of Pennsylvania		
Harry Sternfeld	U 1911	Philadelphia, Pa.
Colin Campbell Stewart	F 1904*	Hanover, N. H.
Professor of Physiology, Dartmouth College		
Lever Flegel Stewart	U 1910	Clearfield, Pa.
George William Stimson	U 1903	Pittsburgh, Pa.
Physician		
George Flowers Stradling	G 1902*†	Philadelphia, Pa.
Head of Department of Science, Northeast Manual Training High School		
Charles Gunnison Strickland	U 1903	Erie, Pa.
Physician		
Frank Macy Surface	G 1906 (Ohio U 1905)	Lexington, Ky.
Biologist, Agricultural Experiment Station		
Charles Joseph Swalm	U 1906	Norristown, Pa.
Resident Physician, State Hospital for Insane		
Orland Russell Sweeney	F 1910 (Ohio U 1909)	Philadelphia, Pa.
Instructor in Chemistry, University of Pennsylvania		

Joshua Edwin Sweet	G 1902	Philadelphia, Pa.
Assistant Professor of Experimental Surgery, University of Pennsylvania		
Walter Thomas Taggart	G 1900	Philadelphia, Pa.
Assistant Professor of Chemistry, University of Pennsylvania		
Granville Lewis Taylor	U 1900	Pittsburgh, Pa.
Assistant Chief Engineer, McClintic-Marshall Construction Company		
Thomas Maynard Taylor	G 1900*	
(Deceased 1907)		
William Purves Taylor	U 1900	Philadelphia, Pa.
Engineer, Municipal Testing Laboratory		
Arthur Linville Terry, Jr	U 1900	Philadelphia, Pa.
Filtration Engineer, Hungerford and Terry		
Nathaniel Wiley Thomas	A 1910	Philadelphia, Pa.
Howard Earle Tomlinson	U 1911	St. Davids, Pa.
Oscar Noel Torian	U 1900	Indianapolis, Ind.
Physician		
Charles Travis	U 1902	Philadelphia, Pa.
Instructor in Mineralogy, University of Pennsylvania		
Henry William Troelsch	U 1907	Philadelphia, Pa.
Instructor in Civil Engineering, University of Pennsylvania		
Spencer Trotter	A 1910	Swarthmore, Pa.
Professor of Biology, Swarthmore College		
William Gray Turnbull	U 1906	Philadelphia, Pa.
Physician, Instructor in Medicine, University of Pennsylvania		
Lucius Tuttle	F 1908 (Yale U 1901)	Philadelphia, Pa.
Physician and Demonstrator of Physiology, University of Pennsylvania		
Edwin Burket Twitmyer	F 1904*	Philadelphia, Pa.
Assistant Professor of Psychology, University of Pennsylvania		
Frederick Maria Urban	G 1907	Philadelphia, Pa.
Professor of Psychology, University of Pennsylvania		
Walter Kurt Van Haagen	U 1905	Atlanta, Ga.
Professor of Chemistry, Georgia School of Technology		
Jean Jacques Abram Van Kaathoven	U 1902	Los Angeles, Cal.
Physician		
Frank Russell Van Loon	U 1911	Philadelphia, Pa.
Engineer, F. W. Van Loon, Contractor and Builder		
Edward Bright Vedder	U 1902*	Washington, D. C.
Captain Medical Corps, U. S. Army		
Borden Smith Veeder	U 1907	St. Louis, Mo.
Instructor in Pediatrics, Washington University		
Samuel Tobias Wagner	A 1910	Germantown, Philadelphia, Pa.
Jesse Pusey Walton	U 1910	Pittsburgh, Pa.
Draftsman, Pennsylvania Lines		
Joseph Barnard Walton	U 1905	New York City
Secretary, Young Men's Christian Association, Intercollegiate Branch		

Charles Laurence Warwick	U 1909	Philadelphia, Pa.
Instructor in Civil Engineering, University of Pennsylvania		
Cassius Hinds Watson	U 1901	Brooklyn, N. Y.
Instructor in Biology, Pratt Institute		
Walter Loring Webb	F 1900†	Philadelphia, Pa.
Chief Consulting Engineer, Day and Zimmerman		
George Smedley Webster	A 1910	Philadelphia, Pa.
John Morris Weiss	U 1905	Philadelphia, Pa.
Laboratory of Hygiene, University of Pennsylvania		
Frank Wenner	F 1907	Washington, D. C.
Assistant Physicist, U. S. Bureau of Standards		
Calvin Naftzinger Wenrich	G 1910	Pittsburgh, Pa.
University of Pittsburgh		
William Carter Wescott	U 1908	Atlantic City, N. J.
Physician, City Hospital		
George Hazzard West	U 1904	Globe, Ariz.
Chemist, Old Dominion Copper Company		
Bayee Newcomb Westcott	U 1909	Schenectady, N. Y.
Engineer		
Edgar Theodore Wherry	U 1906	South Bethlehem, Pa.
Assistant Professor of Mineralogy, Lehigh University		
William Berry Whetstone	U 1903	Philadelphia, Pa.
Physician		
Arthur Jennings White	U 1911	Gloucester, N. J.
Assistant Chemist Welsbach Company		
Philip Richardson Whitney	F 1907	Philadelphia, Pa.
Assistant Professor of Graphics, University of Pennsylvania		
Edward Embree Wildman	G 1906	Philadelphia, Pa.
Professor of Biology, Central High School		
Joseph Smith Wilds, Jr	U 1905	Pottstown, Pa.
Structural Draftsman, McClintic-Marshall Construction Company		
Samuel Borton Williams	U 1901	Philadelphia, Pa.
Assistant Engineer, Pennsylvania Bell Telephone Company		
Clarence Addison Willis	G 1901	Philadelphia, Pa.
Professor of Mathematics, Girard College		
Louis Albert Wills	U 1909	Philadelphia, Pa.
Chemist, American Sugar Refining Company		
Lightner Witmer	F 1904*†	Philadelphia, Pa.
Professor of Psychology, University of Pennsylvania		
Clarence C Winterstein	U 1910	Philadelphia, Pa.
Alfred Daniel Wolff, Jr	U 1907	New York City
Assistant Engineer, New York Central and Hudson River Railroad		
Henry Dunn Wood	U 1904	Philadelphia, Pa.
George Jesse Wright	U 1904	Pittsburgh, Pa.
Physician		

Levi Parker Wyman	G 1902*	Chester, Pa.
Professor of Chemistry, Pennsylvania Military College		
Frederick Wynkoop	U 1907	Philadelphia, Pa.
Analytical Chemist, Booth, Garrett and Blair		
Rowland Lawrence Young	U 1907	New York City
Engineer, American Telephone and Telegraph Company		
Edward Herman Zieber	U 1909	Philadelphia, Pa.

BROWN CHAPTER

BROWN UNIVERSITY, PROVIDENCE, RHODE ISLAND

Charter Date April 16, 1900

Chapter Installed, May 9, 1900

HISTORICAL SKETCH

Previous to the year 1900 Phi Beta Kappa was the only honorary society existing at Brown University. As candidates for the engineering degrees were not eligible to membership to Phi Beta Kappa at this University, it was felt by some members of the faculty that it would be desirable to establish an honorary scientific society at Brown University. Accordingly, on January 18, 1900, a meeting of members of the faculty engaged in teaching branches of pure and applied science was held at which the first tangible step was taken toward the formation of a chapter of Sigma Xi. On January 25, 1900, twenty-six members of the faculty petitioned for a charter and on May 9 were initiated as members of the Brown Chapter, by Professor H. S. Williams, of Yale University, President of the National Society of Sigma Xi. It has been impossible to locate the charter, so the date it was drawn cannot be given. [It is entered as stated in the official announcement on file.]

During the period from 1900 to 1908, inclusive, the Brown Chapter has elected five faculty members, fifteen alumni members, twenty-eight resident graduate members, and forty-seven undergraduate members.

The Brown Chapter has endeavored to promote the interests which it is the object of Sigma Xi to encourage, by discrimination in the election of members and by holding public and Chapter meetings at which scientific topics are discussed by investigators in various branches of research work.

A. H. B.

OFFICERS FOR 1911-12

President	WILLIAM HERBERT KENERSON
Vice-President	CHARLES WILSON BROWN
Recording Secretary	ROLAND GEORGE DWIGHT RICHARDSON
Corresponding Secretary	ANSEL BROOKS
Treasurer	HERBERT EUGENE WALTER
Councilor	ALBERT DeFOREST PALMER

MEMBERSHIP ROLL

Jarvis Howard Alger	U 1909	Pittsburgh, Pa.
Sales Department,	Aluminum Company of America	
John Howard Appleton	CF 1900*†	Providence, R. I.
Professor of Chemistry,	Brown University	
Paul Appleton	U 1911	Boston, Mass.
Student,	Harvard Medical School	

- Vahan Simon Babasinian G 1905 South Bethlehem, Pa.
Associate Professor Chemistry, Lehigh University
- William Whitman Bailey CF 1900*† Providence, R. I.
Emeritus Professor of Botany, Brown University
- Frederick Eugene Banfield U 1908 Newton Highlands, Mass.
Assistant Superintendent, Saco Pettee Company
- Ernest Warren Barnes G 1902 Wickford, R. I.
Assistant Superintendent, Wickford Laboratory
- Carl Barus CF 1900*† Providence, R. I.
Dean of Graduate Department, Professor of Physics, Brown University
- Maxwell Barus U 1910 Cambridge, Mass.
Student, Harvard Law School
- Frederick Steere Beattie U 1906 South Bethlehem, Pa.
Instructor in Chemistry, Lehigh University
- Samuel Jacob Beeber U 1908 Westbrook, Me.
Head Science Department, Westbrook High School
- Albert Arnold Bennett U 1910 Princeton, N. J.
Graduate Student, Princeton University
- Charles Barrows Bennett U 1906 Burlington, Vt.
Instructor in Chemistry, University of Vermont
- Arthur Horace Blanchard CF 1900 (Columbia CG 1903) New York City
Professor of Engineering, Columbia University
- Frederick May Boyce U 1909 Andover, Mass.
Physics Instructor, Phillips Academy
- Laura Cinderella Brant U 1909 Northampton, Mass.
Assistant in Physics, Smith College
- Charles Lewis Brightman U 1909 South Hadley, Mass.
Instructor in Physics, Mt. Holyoke College
- J Ansel Brooks F 1904 Providence, R. I.
Associate Professor of Mechanics, Brown University
- Arthur Robert Brown U 1905 Panama, C. Z.
Isthmian Canal Company
- Charles Wilson Brown G 1901* Providence, R. I.
Assistant Professor of Geology, Brown University
- William Ward Browne G 1910 Providence, R. I.
Graduate Student, Brown University
- John Emery Bucher F 1902* Providence, R. I.
Associate Professor of Organic Chemistry, Brown University
- Hermon Carey Bumpus CF 1900*† Madison, Wis.
Business Manager, University of Wisconsin
- John Wyman Miller Bunker G 1910 Cambridge, Mass.
Instructor in Chemistry, Harvard University
- Alexander Manlius Burgess A 1906 Boston, Mass.
First Assistant in Pathology, Boston City Hospital
- Edward Clifton Burnham CF 1900 Hopedale, Mass.
Designer, Draper Company

Frank Arthur Burr	U 1905	Boston, Mass.
Engineer, Swift and Company		
Ada Irene Burton	G 1910	Providence, R. I.
Assistant, Physical Department, Brown University		
Raymond Davis Cady	G 1905	Bridgeport, Conn.
Chemist, Union Metallic Cartridge Company		
Walter Cuyton Cady	A 1901*	Middletown, Conn.
Professor of Physics, Wesleyan University		
William Hamlin Cady	G 1905	Providence, R. I.
Colorist, Badische Company		
Edwin Eddy Calder	CF 1900	Providence, R. I.
Professor of Chemistry, Rhode Island College of Pharmacy		
Robert Gamble Caswell	U 1911	Providence, R. I.
Instructor in Chemistry, Brown University.		
Arnold Buffum Chace	A 1902*	Providence, R. I.
Chancellor, Brown University		
Edward Blanchard Chamberlain	G 1901	Washington, D. C.
Teacher of Mathematics and German, University School		
Robert Foster Chambers	F 1911	Providence, R. I.
Graduate Assistant, Brown University		
Horace Edward Chandler	U 1906 (Cornell F 1907)	Weihsien, Shantung,
In Charge of Department of Physics, Shantung Christian University [China		
Charles Value Chapin	A 1902†	Providence, R. I.
Superintendent of Health, City of Providence		
John Osborne Chesley	U 1911	New Kensington, Pa.
Sales Department, Aluminum Company of America		
Paul Franklin Clark	G 1906	New York City
Assistant in Pathology and Bacteriology, Rockefeller Institute		
Benjamin Franklin Clarke	CF 1900*†	
(Deceased 1908)		
Harry Duffield Clough	G 1909	Baltimore, Md.
Medical Student, Johns Hopkins University		
George Ellett Coghill	G 1901*	Granville, Ohio
Professor of Zoology, Denison University		
James Franklin Collins	CF 1900†	Providence, R. I.
Forest Pathologist, United States Bureau of Plant Industry		
Howard Wilbur Congdon	G 1906	New York City
Civil Engineer		
Herbert Ray Connor	U 1911	San Francisco, Cal.
Mechanical Engineer, Meese and Gottfried Company		
Elmer Lawrence Corthell	A 1901*†	New York City
Consulting Engineer		
Ernest Willard Crawley	U 1901	New Haven, Conn.
Junior Engineer, United States Army		
Moses Leverock Crossley	G 1910	Liberty, Mo.
Associate Professor of Chemistry, William Jewell College		

Clinton Harvey Currier	G 1900	Providence, R. I.
Instructor in Mathematics, Brown University		
Nelson Clark Dale	G 1910	Providence, R. I.
Instructor in Geology, Brown University		
Florence Harris Danielson	G 1910	Cold Spring Harbor, L. I., N. Y.
Field Worker, Eugenics Record Office, Carnegie Institute		
Harvey Nathaniel Davis	U 1901*	Cambridge, Mass.
Assistant Professor of Physics and Mathematics, Harvard University		
Nathaniel French Davis	CF 1900*†	Providence, R. I.
Professor of Mathematics, Brown University		
Herbert Franklin Davison	U 1905	Pawtucket, R. I.
Science Teacher, High School		
Edmund Burke Delabarre	CF 1900*†	Providence, R. I.
Professor of Psychology, Brown University		
Maurice Lois Dolt	U 1906	South Bethlehem, Pa.
Instructor in Chemistry, Lehigh University		
Edwin Arthur Dow	U 1911	Iowa City, Ia.
Instructor, State University of Iowa		
Henry Bernardin Drowne	U 1903	New York City
Instructor in Engineering, Columbia University		
Norman Armin Dubois	G 1903* (Case F 1907)	Cleveland, Ohio
Dean, Professor of Chemistry, Western Reserve University		
Harold Bowen Edmundson	U 1909	Providence, R. I.
State Board of Public Roads		
Victor Emanuel Emmel	G 1905	St. Louis, Mo.
Associate in Anatomy, Washington University Medical School		
Albert Potter Farwell	U 1910	Providence, R. I.
Chemist, Kendall Manufacturing Company		
George Wilton Field	A 1906*	Sharon, Mass.
Chairman, Massachusetts Commission on Fisheries and Game		
Robert Franklin Field	U 1906	Providence, R. I.
Instructor in Physics, Brown University		
Arthur Leonard Flagg	U 1906	Providence, R. I.
Mining Geologist		
Amory Prescott Folwell	A 1906*†	New York City
Editor, Municipal Journal and Engineer		
Herbert Augustine Freeman	U 1904	Hamson, N. J.
Caleb Allen Fuller	G 1901* (Wisconsin CF 1907)	Madison, Wis.
Assistant, Wisconsin State Hygienic Laboratory		
Frank Taylor Fulton	F 1903*	Providence, R. I.
Physician, Rhode Island Hospital		
Louis John Gillespie	G 1910	New York City
Fellow in Bacteriology, Rockefeller Institute		
George Herbert Gilbert	G 1901	Greensboro, N. C.
Assistant Engineer, Southern Railway		
Frederick Poole Gorham	CF 1900*†	Providence, R. I.
Associate Professor of Biology, Brown University		

Philip Bardwell Hadley	G 1905	Kingston, R. I.
Chief, Division of Biology, Agricultural Experiment Station		
Henry Jewett Hall	G 1901	New London, N. H.
Science Teacher, Colby Academy		
James Alexander Hall	U 1910	Providence, R. I.
Assistant Mechanical Engineer, Brown University		
Walter Gardiner Harrington	U 1911	New York City
Engineer, Good Roads Machinery Company		
Howard Farnum Hart	U 1904 (Syracuse CF 1906)	Montclair, N. J.
Instructor in Mathematics, High School		
Leslie Robert Hicks	U 1903	Fall River, Mass.
Superintendent, Fall River Electric Light Company		
John Edward Hill	CF 1900*†	Providence, R. I.
Professor of Civil Engineering, Brown University		
Norman Edward Holt	U 1910	Providence, R. I.
Instructor in Chemistry, Brown University		
Ray Palmer Hovey	U 1905	Salt Lake City, Utah
Engineer, Utah Copper Company		
Roland Ellis Hutchins	U 1910	Providence, R. I.
Instructor in Civil Engineering, Brown University		
Lulu Broadbent Joslin	G 1907	Baltimore, Md.
Instructor of Physics, Goucher College		
George Thomas Huxford	U 1909	Providence, R. I.
William Williams Keen	A 1906*†	Philadelphia, Pa.
President, American Philosophical Society		
John Vincent Kelly	U 1911	Providence, R. I.
General Fire Extinguisher Company		
William Herbert Kenerson	CF 1900	Providence, R. I.
Associate Professor of Mechanical Engineering, Brown University		
Frederick George Keyes	G 1903	Rochester, N. Y.
In Research		
Ira Winsor Knight	U 1911	Boston, Mass.
Graduate Student, Massachusetts Institute of Technology		
Allen Kramer Krause	G 1902	Baltimore, Md.
Student, Johns Hopkins Medical School		
Kriebel Vernon Kriebel	U 1907	Montreal, Canada
Instructor in Chemistry, McGill University		
Julius Lasker	U 1909	Providence, R. I.
Nels Johann Lennes	F 1906 (Chicago G 1906)	New York City
Instructor in Mathematics, Columbia University		
Albert John Loepsinger	U 1906	Providence, R. I.
Mechanical Engineer, General Fire Extinguisher Company		
Harold William Lyall	G 1910	Brooklyn, N. Y.
Associate Hoagland Laboratory, Long Island College Hospital		
Harold Lester Madison	G 1903	Providence, R. I.
Curator, Roger Williams Park Museum		

- Joseph James Malcolm U 1907
(Deceased 1907)
- Henry Parker Manning CF 1900*† Providence, R. I.
Associate Professor of Pure Mathematics, Brown University
- James Cook Martin G 1910 Princeton, N. J.
Assistant in Geology, Princeton University
- Albert Davis Mead CF 1900*† Providence, R. I.
Professor of Biology, Brown University
- Ada Geneva (Wing) Mead CF 1900 Providence, R. I.
(Mrs Albert Davis Mead)
- Alexander Meiklejohn CF 1900*† Providence, R. I.
Professor of Logic and Metaphysics, Brown University
- Jesse George Melendy U 1901 Cleveland, Ohio
Superintendent, United States Works of General Chemical Company
- Haven Metcalf A 1906*† (Nebraska G 1902) Washington, D. C.
Pathologist, Bureau of Plant Industry, U. S. Department of Agriculture
- Harold Edmund Miller U 1907 Providence, R. I.
Assistant Engineer, State Board of Public Roads
- Max Merrill Miller U 1901 Yonkers, N. Y.
Designer, Bridge Department, New York Central and Hudson River Railroad
- Philip Henry Mitchell F 1904 (Yale U 1904) Providence, R. I.
Assistant Professor of Physiology, Brown University
- Lyman Churchill Newell A 1906*† Boston, Mass.
Professor of Chemistry, Boston University
- Arthur Edwin Norton U 1900 Cambridge, Mass.
Assistant Professor of Mechanical Drawing, Harvard University
- Chester Linwood Nourse U 1909 Cambridge, Mass.
Harvard University
- George Barrows Obear G 1905* Waterville, Me.
Instructor in Physics, Colby College
- Alpheus Spring Packard CF 1900†
(Deceased 1905)
- Roscoe Milliken Packard G 1903 Washington, D. C.
Assistant Examiner, United States Patent Office
- George Frederick Paddock U 1902 Mt. Hamilton, Cal.
Assistant, Lick Observatory
- Albert de Forest Palmer CF 1900* Providence, R. I.
Associate Professor of Physics, Brown University
- George Freeman Parmenter G 1903* Waterville, Me.
Associate Professor of Chemistry, Colby College
- Irving Wooster Patterson U 1909 Providence, R. I.
- John Combe Pegram, Jr F 1903†
(Deceased 1906)
- Jay Perkins F 1903* Providence, R. I.
Physician, Demonstrator in Anatomy, Brown University

Charles Manchester Perry	A 1906	Greene, R. I.
With Sayles Bleacheries and Glenlyon Dye Works		
Irving Wilbert Pettengill	U 1911	Detroit, Mich.
Engineer, Cadillac Motor Car Company		
Thurston Mason Phetteplace	U 1901	Providence, R. I.
Assistant Professor of Mechanical Engineering, Brown University		
Robinson Pierce	U 1902	South Easton, Mass.
Charles Huntington Porter	U 1900	Boston, Mass.
Comptroller, W. H. McElwain Company		
David James Purdie	U 1911	Providence, R. I.
Oscar William Rackle	U 1906	Providence, R. I.
Lemuel Charles Raiford	U 1900	Chicago, Ill.
Instructor in Chemistry, University of Chicago		
Otis Everett Randall	CF 1900*†	Providence, R. I.
Professor of Mechanics and Mechanical Drawing, Brown University		
Roland George Dwight Richardson	F 1904 (Yale F 1904)	Providence, R. I.
Assistant Professor of Mathematics, Brown University		
William Nisbet Ross	U 1907	Providence, R. I.
Teacher of Science, English High School		
George Herbert Sherwood	G 1900	New York City
Curator, American Museum of Natural History		
Marian Lydia Shorey	G 1906 (Chicago G 1906)	Milwaukee, Wis.
Professor of Biology, Milwaukee-Downer College		
Walter Clifton Slade	U 1907	Pittsfield, Mass.
Research Chemist, General Electric Company		
Frederick Slocum	CF 1900*	Williams Bay, Wis.
Assistant Professor of Astronomy, Yerkes Observatory		
George Hawthorne Smith	G 1910	Providence, R. I.
Assistant in Physiology, Brown University		
Roy Harman Smith	U 1901	Cleveland, Ohio
Superintendent, National Screw and Tack Company		
Walter Edward Smith	CF 1900	Providence, R. I.
Foundry Company		
Henry Pomeroy Stacy	U 1908	New York City
Bridge Designer, New York Central and Hudson River Railway		
Frank William Stephens	U 1905	Hornersville, N. Y.
Engineer, Panama Canal Company		
Harlan True Stetson	U 1908	Hanover, N. H.
Instructor in Physics, Dartmouth College		
Mary Clegg Suffa	U 1910	Warwick, R. I.
Teacher of Mathematics, Warwick High School		
Michael Xavier Sullivan	G 1902*	Washington, D. C.
Chemist, United States Bureau of Soils		
Walter Edward Sullivan	G 1910	Cleveland, Ohio
Instructor in Biology, Western Reserve University		

Everett Harold Swett	U 1907	Montrose, Col.
Engineer, United States Reclamation Service		
George Francis Sykes	G 1910	Corvallis, Ore.
Instructor in Zoology, Oregon Agricultural College		
Howard Alfred Taber	U 1910	Oxford, Eng.
Rhodes Scholarship, Oxford University		
Frank Carter Taylor	U 1909	Providence, R. I.
Millett Taylor Thompson	G 1900*	
(Deceased 1907)		
Ralph Cameron Thompson	G 1903	Attleboro, Mass.
Treasurer, Charles M. Robbins Company		
Ralph Winfred Tower	CF 1900*†	New York City
Curator, American Museum of Natural History		
Henry Carroll Tracy	G 1906	Evanston, Ill.
Instructor, Medical School, Northwestern University		
Ernest Edward Tyzzer	A 1906*	Cambridge, Mass.
Assistant in Pathology, Harvard University		
Winslow Upton	CF 1900*†	Providence, R. I.
Professor of Astronomy, Brown University		
Herbert Eugene Walter	F 1909*	Providence, R. I.
Assistant Professor of Biology, Brown University		
Arthur Eugene Watson	CF 1900*	Providence, R. I.
Assistant Professor of Physics, Brown University		
Clarence West Wade	U 1908	Manila, P. I.
Bureau of Public Works		
Martha Wilbur Watt	U 1900	Providence, R. I.
Teacher of Mathematics, Fielden-Chace School		
Robert Campbell Weed	U 1909	Arlington, Mass.
Student, Harvard University		
Niles Westcott	U 1905	New Haven, Conn.
Student, Yale Medical College		
Frank Perkins Whitman	A 1906*	Cleveland, Ohio
Professor of Physics, Western Reserve University		
Alice Wilson Wilcox	G 1906	Providence, R. I.
Instructor in Biology, Women's College, Brown University		
Leonard Worcester Williams	G 1901*	Boston, Mass.
Instructor, Harvard Medical School		
Sydney Wilmot	U 1909	New York City
Graduate Student, Columbia University		
Clarence Edgar Wilson	CF 1900	Perth Amboy, N. J.
Chemist		
Ada Geneva Wing	CF 1900	Providence, R. I.
(Mrs Albert Davis Mead)		
Arthur Melvin Winslow	U 1903	Providence, R. I.
Foster Verne Young	U 1911	Worcester, Mass.
Manufacturer		

IOWA CHAPTER

STATE UNIVERSITY OF IOWA, IOWA CITY, IOWA

Charter Dated June 22, 1900 Chapter Installed November 14, 1900

HISTORICAL SKETCH

On June 22, 1900, a charter was granted for the establishment of "a Chapter of the Society of the Sigma Xi at the State University of Iowa." There being no other chapter of Sigma Xi in the state of Iowa at the time, the Chapter designated in its charter by the phrase quoted above decided to call itself the "Iowa Chapter," a name which has continued to the present time without the use of a chapter letter.

The Iowa Chapter of the State University of Iowa was installed with twelve charter members. In the election of new members, the policy of the Chapter has ever been conservative, hence it is that at the end of its tenth year the total membership reaches only one hundred and sixty-one. Of this number, fifty-one are active members.

It was decided early in the history of the Chapter that two public lectures should be attempted each year; one of these to be given early in the fall by the retiring president of the Chapter; the other to come as near to February 22 as possible and to be delivered by some distinguished investigator outside the Chapter. The plan so adopted has been adhered to consistently, and these two lectures have become established University functions.

In addition to these two occasions when the entire University is invited as guests of the Chapter, several closed meetings are held throughout the year at which reports on researches in progress are made by the members. These, together with the business meetings, have served to unify the scientific interests of the University to a highly desirable degree.

G. L. H.

OFFICERS FOR 1911-12

President.....	WILLIAM GALT RAYMOND
Vice-President.....	CARL EMIL SEASHORE
Recording Secretary.....	JAMES NEWTON PEARCE
Corresponding Secretary.....	GILBERT LOGAN HOUSER
Treasurer.....	ROBERT BRADFORD WYLIE
Councilor.....	THOMAS HUSTON MACBRIDE

MEMBERSHIP ROLL

Emma Beth Achenbach (Mrs. E. B. Brauch)	U 1905	Lakefield, Ia.
Joseph Quincy Adams	U 1909 City Engineer	Centerville, Ia.

Frederick Albert	U 1904 Physician	Mason City, Ia.
Henry Albert	F 1903*† Professor of Pathology and Bacteriology, State University of Iowa	Iowa City, Ia.
Clive Morris Alexander	U 1911 Assistant in Chemistry, State University of Iowa	Iowa City, Ia.
Rudolph Martin Anderson	U 1903 Zoologist, American Museum of Natural History	New York City
Launcelot Winchester Andrews	CF 1900*† President, Andrews Chemical Works	Davenport, Ia.
Kathryn Theiss Aschenbrenner	U 1911 Science Teacher, High School	Atlantic, Ia.
Frederick George Baender	U 1908 Mechanical Engineer Foreman, Southern Pacific Railroad Shops	Oakland, Cal.
Richard Philip Baker	F 1907 Instructor in Mathematics, State University of Iowa	Iowa City, Ia.
William Edward Barlow	F 1904 Professor of Metalurgy and Metallography, Virginia Polytechnic Institute	Blacksburg, Va.
William Milton Barr	U 1902 (Pennsylvania G 1905) Acting Manager, Andrews Chemical Company	Davenport Ia.
Albert Moore Barrett	G 1904 (Michigan A 1904) Professor of Nervous Diseases and Psychiatry, University of Michigan	Ann Arbor, Mich.
Claude Alpheus Bartholow	U 1904 Civil Engineer with W. D. Lovell Company	Minneapolis, Minn.
Paul Bartsch	G 1905* Curator of Conchology, Smithsonian Institution	Washington, D. C.
Arthur Neal Bean	U 1906 Great Northern Railway Office	Minneapolis, Minn.
William Edmund Beck	G 1902 Teacher of Mathematics, Sioux City High School	Sioux City, Ia.
William Bonar Bell	U 1902 Professor of Zoology and Physiology, North Dakota Agricultural College	Fargo, N. D.
James Guest Berryhill, Jr	U 1903 Attorney	Des Moines, Ia.
Walter Martinus Boehm	U 1902 (Pennsylvania F 1907) Instructor in Physics, University of Pennsylvania	Philadelphia, [Pa.]
Perry Avery Bond	U 1901 Instructor in Chemistry, Armour Institute of Technology	Chicago, Ill.
Frederic Bonnet, Jr	F 1904* (Worcester CF 1908) Assistant Professor of Chemistry, Worcester Polytechnic Institute [Mass.]	Worcester,
Charles Henry Bowman	G 1901 President, Montana State School of Mines	Butte, Mont.
Lucy Winifred Brant (Mrs James Mead)	U 1906	Council Bluffs, Ia.
Fay Cluff Brown	F 1910 (Illinois F 1905) Assistant Professor of Physics, State University of Iowa	Iowa City, Ia.

Grace Emma Buckley	U 1907 Science Teacher, High School	Cresco, Ia.
Harry Pitkin Burgum	U 1904 Civil Engineer, W. D. Lovell Company	Minneapolis, Minn.
Ira Arthur Burkheimer	U 1908 Civil Engineer	Seattle, Wash.
Harry Edward Burton	G 1905 Assistant, United States Naval Observatory	Washington, D. C.
Samuel Calvin (Deceased 1911)	CF 1900*†	
Olive Merrill Chase (Mrs George W Gearheart)	U 1906 Teacher of Domestic Science, High School	Vancouver, Wash.
Edward Perry Churchill	U 1907 Principal, High School	Washington, Ia.
Arthur John Cox	G 1908 Civil Engineer	Iowa City, Ia.
Edward Webster Crellin	G 1908 President, Des Moines Bridge and Iron Works	Des Moines, Ia.
Sarah Elizabeth Cronin	U 1903 Instructor in Mathematics, State University of Iowa	Iowa City, Ia.
Lilah B Crum	U 1910 Principal, High School	Osage, Ia.
Arnold Victor Dahlberg	F 1908 (Minnesota U 1905) Industrial Chemist	Spreckels, Cal.
Donald Berryhill Davison	U 1911 Student, Harvard University.	Cambridge, Mass.
George Edward Decker	G 1908 Physician	Davenport, Ia.
Otto Dell De Hart	U 1905 Engineer, Des Moines Bridge and Iron Company	Dallas, Tex.
Philip Kirby De Voe	U 1910 With City Engineer	Creston, Ia.
Edward Lewis Dodd	F 1905* (Yale G 1904) Instructor in Mathematics, University of Texas	Austin, Tex.
Gilman Arthur Drew	G 1905*† Assistant Director, Marine Biological Laboratory	Woods Hole, Mass.
George Frederick Eckhard	U 1905 Professor of Civil Engineering, James Millikin University	Decatur, Ill.
Paul Frederick Edinger	G 1906 In Business	Cedar Rapids, Ia.
Charles Howard Edmondson	G 1904 Professor of Biology, Washburn University	Topeka, Kan.
Evie James Edwards	U 1907 Instructor in Electrical Engineering, Massachusetts Institute of Technology	Boston, Mass.
Anfin Egdahl	F 1906 Physician	Menomonee, Wis.

Frederic Grant Emry	U 1902 Merchant	Paonia, Col.
Louise Henrietta Falk (Mrs Wilfred W Robbins)	U 1909	Ft. Collins, Col.
Clifford Harrison Farr	U 1911 Scholar in Botany, State University of Iowa	Iowa City, Ia.
Burton Percival Fleming	F 1910 Professor of Steam and Mechanical Engineering, State University of Iowa	Iowa City, Ia.
Arthur Hillyer Ford	F 1907 Professor of Electrical Engineering, State University of Iowa	Iowa City, Ia.
George Cutler Fracker	G 1909* Professor of Psychology, Northern State Normal School	Marquette, Mich.
Charles McLean Fraser	G 1911 Fellow in Zoology, State University of Iowa	Iowa City, Ia.
Russell D George	F 1901* (Colorado CF 1905) State Geologist, Professor of Geology, University of Colorado	Boulder, Col.
George Sabin Gibbs	G 1904 Captain, United States Signal Corps	Ft. Leavenworth, Kan.
Levi Alexander Giddings	U 1911 Assistant in Botany, State University of Iowa	Iowa City, Ia.
Henry Max Goettsch	F 1901 Assistant Professor of Chemistry, University of Cincinnati	Cincinnati, Ohio
Mary Caroline Griffith	U 1905 Science Teacher	Whittier, Cal.
Karl Eugen Guthe	F 1906*† (Michigan CF 1905) Professor of Physics, University of Michigan	Ann Arbor, [Mich.]
Eugene C Hartley	U 1908 Teacher	Cloquet, Minn.
Harvey Wilfred Hartupee	U 1911 Engineer	Des Moines, Ia.
Earl Washington Hatz	U 1911 Engineer, Watertown Light and Power Company	Watertown, S. D.
Beulah Hayden	U 1911 Assistant in Zoology, State University of Iowa	Iowa City, Ia.
Jesse Van Fleet Henley	U 1908 In Business	San Diego, Cal.
Emil John Hemmer	U 1906 Civil Engineer, Chicago, Milwaukee and St. Paul Railway	Chicago, Ill.
Frederick Goodson Higbee	F 1910 Professor of Geometry and Drawing, State University of Iowa	Iowa City, Ia.
Sebern Waldo Hockett	G 1905 Professor of Science, State Normal School	Moorhead, Minn.
Ivan Edgar Houk	U 1911 Civil Engineer, Morgan Engineering Company	Memphis, Tenn.
Gilbert Logan Houser	CF 1900* Professor of Animal Biology, State University of Iowa	Iowa City, Ia.

- Campbell Palmer Howard F 1911 Iowa City, Ia.
Professor of Theory and Practice of Medicine, State University of Iowa
- Ralph Chase Huston G 1908 East Lansing, Mich.
Assistant Professor of Chemistry, Michigan Agricultural College
- Harry Morgan Ivins U 1904 Cedar Rapids, Ia.
Physician
- Frank Thomas Jensen U 1901 Dysart, Ia.
Editor
- William Jepson F 1905 Iowa City, Ia.
Professor of Surgery, State University of Iowa
- Susan Grace Jewell G 1908 Tabor, Ia.
Professor of Biology, Tabor College
- Anna Johnson G 1904 Vermillion, S. D.
(Mrs Alexander Pell)
- Otto Frederic Kampmeier U 1909 Princeton, N. J.
Fellow in Zoology, Princeton University
- William Jay Karslake F 1906 Iowa City, Ia.
Assistant Professor of Chemistry, State University of Iowa
- George Frederick Kay F 1908* (Chicago G 1903; Kansas G 1904)
Professor of Economic Geology, State University of Iowa [Iowa City, Ia.]
- Carleton Volney Kent U 1904 Northfield, Minn.
Acting Professor of Physics, Carleton College
- Frank Dunn Kern U 1904 Lafayette, Ind.
Instructor in Botany, Purdue University
- Rudolph Ernst Kleinsorge G 1906 Silverton, Ore.
Physician
- Noah D Knupp G 1911 Iowa City, Ia.
Assistant in Botany, State University of Iowa
- Raymond Carl Kramer U 1907 Chicago, Ill.
Civil Engineer, Chicago, Burlington and Quincy Railway
- Albert Kuntz G 1910 Iowa City, Ia.
Instructor in Biology, State University of Iowa
- Byron James Lambert G 1904 Iowa City, Ia.
Professor of Structural Engineering, State University of Iowa
- Charles Irwin Lambert U 1901 New York City
Assistant Pathologist, New York Pathological Institute
- John Joseph Lambert F 1902 Iowa City, Ia.
Assistant Professor of Anatomy, State University of Iowa
- Charles Frederic Lorenz F 1900 Cleveland, Ohio
Physicist, National Electric Lamp Association
- Frederick William Lovell G 1909 Cleveland, Ohio
Vice-President and Secretary, McMyler Interstate Company
- Thomas Huston Macbride CF 1900*† Iowa City, Ia.
Professor of Botany, State University of Iowa
- Charles Scott Magowan F 1904
(Deceased 1907)

Richard Dana Marsh	U 1902	Minneapolis, Minn.
Civil Engineer, Bailey-Marsh Company		
Calvin Terry McClintock	U 1905	Sioux City, Ia.
Teller, Woodbury County Savings Bank		
Lucy Winifred (Brant) Mead	U 1906	Chicago, Ill.
(Mrs James Mead)		
Dayton Eugene Merrill	G 1910	Iowa City, Ia.
Fellow in Zoology, State University of Iowa		
Walter Richard Miles	G 1911	Iowa City, Ia.
Fellow in Psychology, State University of Iowa		
LeRoy F Miller	U 1909	Detroit, Mich.
Chemist, Parke Davis and Company		
James Burt Miner	F 1905* (Columbia F 1903)	Minneapolis, Minn.
Assistant Professor of Psychology, University of Minnesota		
Fred Moore	U 1906	Iowa City, Ia.
Scholar in Medicine, State University of Iowa		
George Wilber Moffitt	U 1910	Palo Alto, Cal.
Assistant in Physics, Leland Stanford Junior University		
George Haines Mount	G 1910	Cedar Falls, Ia.
Professor of Psychology, Iowa State Teachers College		
George Auerbach Neustadt	U 1908	Decatur, Ill.
In Business		
Francis Eugene Nipher	G 1905*†	St. Louis, Mo.
Professor of Physics, Washington University		
Charles Cleveland Nutting	CF 1900*†	Iowa City, Ia.
Professor of Zoology, State University of Iowa		
Ernest Linwood Ohle	F 1906 (Case U 1904)	St. Louis, Mo.
Professor of Mechanical Engineering, Washington University		
James Newton Pearce	F 1908	Iowa City, Ia.
Assistant Professor of Chemistry, State University of Iowa		
Anna (Johnson) Pell	G 1904	Vermilion, S. D.
(Mrs Alexander Pell)		
James Owen Perrine	U 1909	Ann Arbor, Mich.
Assistant in Physics, University of Michigan		
Charles Delos Poore	F 1906 (Minnesota U 1905)	Aberdeen, S. D.
Professor of Physics and Chemistry, Northern State Normal School		
Henrietta Prentiss	G 1907	New York City
Instructor in Zoology, Normal College		
Henry James Prentiss	F 1906	Iowa City, Ia.
Professor of Anatomy, State University of Iowa		
George Cornelius Priester	U 1910	Minneapolis, Minn.
Instructor in Mathematics, University of Minnesota		
Ralph Clarkson Puckett	U 1908	Iowa City, Ia.
Manager, Interseal Inner Tire Company		
Roswell Clair Puckett	U 1909	Nabua, Ambos Camarines, P. I.
Superior of Schools, Nabua District, Bureau of Education Philippine Islands		

- Karl Sobieski Putnam U 1911 Fairfield, Ia.
Engineer with Fairfield Gas and Electric Company
- William Galt Raymond F 1905*† (Rensselaer F 1895) Iowa City, Ia.
Dean of College of Applied Science, State University of Iowa
- John Franklin Reilly F 1910 Iowa City, Ia.
Assistant Professor of Mathematics, State University of Iowa
- Joseph Richmond U 1910 Chicago, Ill.
Civil Engineer, Chicago, Burlington and Quincy Railway
- Edith Gertrude Rigler U 1910 Iowa City, Ia.
Assistant Registrar, State University of Iowa
- Louise Henrietta Robbins U 1909 Ft. Collins, Col.
(Mrs W W Robbins)
- Elbert William Rockwood F 1904*† Iowa City, Ia.
Professor of Chemistry, State University of Iowa
- Ralph Eugene Root F 1910 Columbia, Mo.
Instructor in Mathematics, University of Missouri
- Edward John Ruff U 1906 Ambridge, Pa.
Draftsman and Engineer, American Bridge Company
- Thomas Edmund Savage G 1903* (Illinois F 1908) Urbana, Ill.
Assistant Professor of Geology, University of Illinois
- Charles Plume Schenck U 1904 Temple, Tex.
Physician, Temple Sanitarium.
- John Scherner U 1909 Milwaukee, Wis.
Mechanical Engineer, Federal Rubber Manufacturing Company
- Carl Emil Seashore F 1905* Iowa City, Ia.
Professor of Psychology and Dean of Graduate College, State University of Iowa
- Fred Jay Seaver G 1904 New York City
Director of Laboratories, New York Botanical Garden
- Charles Mahlon Secrest U 1909 Iowa City, Ia.
Civil Engineer
- Earl Reinholdt Seidel U 1906 Hiteman, Ia.
Mining Engineer, Wapello Mining Company
- John Austin Shaw U 1905 Fargo, N. D.
Civil Engineer with G. W. Haggart Company
- Ella Shimek U 1909 Iowa City, Ia.
Fellow in Botany, State University of Iowa
- Bohumil Shimek CF 1900*† Iowa City, Ia.
Professor of Physiological Botany, State University of Iowa
- Lee Paul Sieg G 1901 Iowa City, Ia.
Assistant Professor of Physics, State University of Iowa
- Alfred Varley Sims CF 1900
Civil Engineer
- Arthur George Smith CF 1900* Iowa City, Ia.
Professor of Mathematics, State University of Iowa
- Charles Horton Smith U 1901 Minneapolis, Minn.
Civil Engineer, W. D. Lovell Company

Franklin Orion Smith	G 1907	Iowa City, Ia.
Fellow in Psychology, State University of Iowa		
Frank Springer	G 1900*† Paleontologist	Las Vegas, N. M.
Daniel Starch	G 1906	Madison, Wis.
Instructor in Psychology, University of Wisconsin		
George Walter Stewart	F 1910*† (Cornell F 1900)	Iowa City, Ia.
Professor of Physics, State University of Iowa		
Merle Rufus Stone	U 1907 Surveyor	Hawarden, Ia.
Dayton Stoner	G 1909	Iowa City, Ia.
Assistant in Museum, State University of Iowa		
Frank Albert Stromsten	G 1902	Iowa City, Ia.
Assistant Professor of Animal Biology, State University of Iowa		
Minerva Grace Swaney (Mrs Frank A Stromsten)	U 1910	Iowa City, Ia.
Arthur Lawrie Tatum	G 1907 (Colorado F 1907)	Madison, Wis.
Instructor in Pharmacology and Toxicology, University of Wisconsin		
Maud Estella Taylor	G 1906 Physician	Ottumwa, Ia.
David Mills Terwilliger	U 1911	Boston, Mass.
Assistant in Electrical Engineering, Massachusetts Institute of Technology		
Abram Owen Thomas	G 1909	Iowa City, Ia.
Instructor in Geology, State University of Iowa		
Orley Hosmer Truman	U 1911	Iowa City, Ia.
Graduate Student, State University of Iowa		
Granville Howard Twining	G 1907 (Northwestern G 1906)	Milwaukee,
Physician, Milwaukee Railway Hospital [Wis.		
John Andrews Udden	G 1906 (Chicago G 1907)	Chicago, Ill.
Graduate Student, University of Chicago		
Hyman Joseph Udinsky	U 1910	Philadelphia, Pa.
Student, Jefferson Medical College		
Irma Augusta Uhde	U 1910	Iowa City, Ia.
Scholar in Botany, State University of Iowa		
Clarence Van Epps	F 1907	Iowa City, Ia.
Assistant Professor of Medicine, State University of Iowa		
Francis Maurice Van Tuyl	U 1911	Iowa City, Ia.
Assistant in Geology, State University of Iowa		
Frank Vasku	U 1907 Clergyman	Hedgesville, Mont.
Andrew Anderson Veblen	CF 1900* Retired	Stillwater, Minn.
Carl Leopola von Ende	F 1901	Moscow, Ida.
Professor of Chemistry, University of Idaho		
Hershey Samuel Welch	U 1904	North Platte, Neb.
Civil Engineer, Union Pacific Railway		

LeRoy Dougherty Weld	G 1910*	Cedar Rapids, Ia.
Professor of Physics, Coe College		
Laenas Gifford Weld	CF 1900*†	Iowa City, Ia.
Professor of Mathematics, State University of Iowa		
Roy Titus Wells	F 1904*	Boston, Mass.
Electrical Engineer		
John Van Etten Westfall	CF 1900*	New York City
Expert Accountant, Equitable Life Insurance Company		
Clarence Lester White	U 1909	The Dalles, Ore.
City Engineer		
Henry Frederick Wickham	CF 1900*†	Iowa City, Ia.
Professor of Entomology, State University of Iowa		
Frank Alonzo Wilder	F 1904*	North Holston, Va.
Consulting Geologist, Southern Gypsum Company		
Mabel Claire Williams	G 1909	Iowa City, Ia.
Assistant Professor of Psychology, State University of Iowa		
Bernard Darwin Willis	G 1904	Chicago, Ill.
Electrical Engineer, Automatic Electric Company		
John Henry Witte	U 1910	Burlington, Ia.
In Business		
Finley Miller Witter (Deceased 1909)	G 1906	
Mary Louise Woods (Mrs Levi Wilkinson)	G 1909	Prairieburg, Ia.
Sherman Melville Woodward	F 1905	Iowa City, Ia.
Professor of Mechanics, State University of Iowa		
Archie Garfield Worthing	F 1908	Cleveland, Ohio
Physicist to National Electric Lamp Association		
Bertram Joseph Wright	U 1906	Montreal, Canada
Designer Draftsman, Canadian Pacific Bridge Department		
Robert Bradford Wylie	F 1907* (Chicago A 1904)	Iowa City, Ia.
Professor of Morphological Botany, State University of Iowa		
Alice Emily Yocum	U 1907	Iowa City, Ia.
Graduate Student, State University of Iowa		
Frederick Charles Young	U 1909	Iowa City, Ia.
Instructor in Civil Engineering, State University of Iowa		
Mildred Rebecca Yule	U 1906	Iowa City, Ia.
Assistant in Biology, State University of Iowa		

STANFORD CHAPTER

LELAND STANFORD JUNIOR UNIVERSITY, PALO ALTO, CALIFORNIA

Charter Dated December 16, 1901 Chapter Never Formally Installed

HISTORICAL SKETCH

Stanford Chapter of Sigma Xi was organized at the initiation of a number of resident members of the Stanford faculty holding membership from other institutions. Of this group of fourteen who became the charter members of this Chapter, ten were members of the Alpha Chapter at Cornell University. The charter was granted December 16, 1901, and the Society held its first meeting January 23, 1902.

As a matter of general policy, membership has been restricted almost entirely to graduate students who have either completed a creditable piece of research work or have otherwise given undoubted evidence of their ability to carry on original investigation. Undergraduates of senior standing are elected very rarely, so the resident active membership of the Society has never been large. The activities of the Society have been limited thus far to occasional formal lectures by prominent scientists and to the promotion of social intercourse among the members.

L. R. A.

OFFICERS FOR 1911-12

President.....	GUIDO HUGO MARX
Vice-President.....	SAMUEL BARCLAY CHARTERS, JR.
Recording Secretary.....	LEROY ABRAMS
Corresponding Secretary.....	LEROY ABRAMS
Treasurer.....	LEROY ABRAMS
Councilor.....	HARRIS JOSEPH RYAN

MEMBERSHIP ROLL

James Francis Abbott	A 1908*	St. Louis, Mo.
Professor of Embryology and Zoology,		Washington University
LeRoy Abrams	G 1902*	Stanford University, Cal.
Associate Professor of Botany,		Leland Stanford Junior University
Robert Edgar Allardice	F 1902*†	Stanford University, Cal.
Professor of Mathematics,		Leland Stanford Junior University
William Fitch Allen	A 1907 (California F 1908)	Minneapolis, Minn.
Instructor of Histology,		University of Minnesota
Frank M Anderson	A 1904* (California G 1909)	Berkeley, Cal.
Geologist, Southern Pacific Railway		Company
Robert Van Vleck Anderson	G 1909	Washington, D. C.
Assistant Geologist, United States		Geological Survey
Frank Angell	CF 1902*† (Cornell F 1892)	Palo Alto, Cal.
Professor of Psychology,		Leland Stanford Junior University

- George Hall Ashley A 1904*† Washington, D. C.
Geologist, United States Geological Survey
- Arthur Oswin Austin G 1909 Barberton, Ohio
Electric and Ceramic Engineer, Ohio Insulator Company
- Luther Madison Bahney F1911 Palo Alto, Cal.
Assistant Professor of Metallurgy, Leland Stanford Junior University
- Samuel Jackson Barnett CF 1902* (Cornell G 1897) Columbus, Ohio
Assistant Professor of Physics, Ohio State University
- George DeForest Barnett F 1909 Baltimore, Md.
Student, Johns Hopkins University Medical School
- William George Bateman G 1908 Tientsin, China
Professor of Chemistry, Pei Yang University
- Frank George Baum F 1902* Berkeley, Cal.
Assistant Professor of Electrical Engineering, University of California
- Ruby (Green) Bell G 1904 (Cornell F 1905) Ithaca, N. Y.
(Mrs Albert William Smith)
- Samuel Stillman Berry G 1909 Stanford University, Cal.
Graduate Student, Leland Stanford Junior University
- Rose (Patterson) Blakeman G 1907 San Jose, Cal.
(Mrs Charles Bartlett Blakeman)
- Hans Frederiek Blickfeldt F 1902* Stanford University, Cal.
Associate Professor of Mathematics, Leland Stanford Junior University
- George Shambaugh Bohart G 1911 Palo Alto, Cal.
Graduate Student, Leland Stanford Junior University
- John Casper Branner CF 1902*† (Cornell A 1887) Stanford
Vice-President, Professor of Geology [University, Cal.]
- Luther Burbank F 1905 Santa Rosa, Cal.
Plant Breeder
- John Samuel Burcham A 1904
(Deceased 1905)
- Charles Victor Burke G 1908 Stanford University, Cal.
Graduate Student, Leland Stanford Junior University
- William Edmund Burke U 1905 Camaguey, Cuba
Assistant Chemist with Hawaiian Sugar Plantation Association
- Leonas Lancelot Burlingame F 1908 Stanford University, Cal.
Assistant Professor of Botany, Leland Stanford Junior University
- Clinton Sumner Burns A 1905 Kansas City, Mo.
Consulting Engineer, Burns and McDonnell
- Douglas Houghton Campbell CF 1902*† Stanford University, Cal.
Professor of Botany, Leland Stanford Junior University
- William Austin Cannon A 1904* Tucson, Ariz.
Resident Investigator, Desert Laboratory, Carnegie Institution
- Anten Julius Carlson G 1903*† (Chicago F 1904) Chicago, Ill.
Associate Professor of Physiology, University of Chicago
- Albert Edward Caswell G 1911 Lafayette, Ind.
Instructor in Physics, Purdue University

- Theodore Sheffield Chapin G 1909 Washington, D. C.
Junior Geologist, U. S. Geological Survey
- Samuel Barclay Charters, Jr F 1906 Stanford University, Cal.
Assistant Professor of Electrical Engineering, Leland Stanford Junior
University
- George Archibald Clark F 1910 Stanford University, Cal.
Academic Secretary, Leland Stanford Junior University
- William Otterbein Clark G 1906 Milwaukee, Wis.
Professor of Chemistry and Geology, State Normal School
- Galen Howell Clevenger G 1907 Palo Alto, Cal.
Assistant Professor of Metallurgy, Leland Stanford Junior University
- George Albert Coleman G 1905 Berkeley, Cal.
Curator, University of California
- Melville Thurston Cook A 1904* Newark, Del.
Plant Pathologist, Delaware Agricultural Experiment Station
- John Edgar Coover A 1906 Stanford University, Cal.
Assistant in Psychology, Leland Stanford Junior University
- Clement Austin Copeland CF 1902 San Francisco, Cal.
Electrical Engineer, Pacific Gas and Electric Company
- Edwin Bingham Copeland F 1902*† Los Baños, P. I.
Dean, College of Agriculture, University of Philippines
- Rhinehart Parker Cowles A 1907* Baltimore, Md.
Associate in Biology, Johns Hopkins University
- Alvin Joseph Cox G 1903* Manila, P. I.
Chemist, United States Government Laboratories
- Roderic Crandall A 1907 Rio Janeiro, Brazil
Geologist, Geological Survey of Brazil
- Mary Ruhamah Cravens G 1905 Sacramento, Cal.
Instructor in Science, High School
- Albert Cornelius Crawford F 1911 Palo Alto, Cal.
Professor of Pharmacology, Leland Stanford Junior University
- Charles Norman Cross F 1911 Palo Alto, Cal.
Instructor in Engineering, Leland Stanford Junior University
- Robert John Cross G 1911 Palo Alto, Cal.
Assistant, Chemistry Department, Leland Stanford Junior University
- Lawrence Edminster Cutter F 1911 Palo Alto, Cal.
Instructor in Engineering, Leland Stanford Junior University
- Lewis Andrew Darling G 1904 (Cornell F 1907) Grand Rapids, Mich.
Chief Engineer and Works Manager
- William Mark Davidson G 1910 San Jose, Cal.
Agent, United States Bureau of Entomology
- Bradley Moore Davis A 1904*† (Chicago CF 1903) Philadelphia, Pa.
Assistant Professor of Botany, University of Pennsylvania
- Mary Cynthia Dickerson F 1908† New York City
Curator, American Museum of Natural History
- Rennie Wilbur Doane A 1906* Palo Alto, Cal.
Assistant Professor of Entomology, Leland Stanford Junior University

- Robert William Dodd G 1904 San Francisco, Cal.
Instructor in Chemistry, Cogswell Polytechnic College
- Norman Eliot Dole G 1905 San Francisco, Cal.
Assistant Superintendent, Western Sugar Refinery
- Robert L'Amy Donald A 1905 Portland, Ore.
Contracting Engineer
- Noah Fields Drake A 1904* Stanford University, Cal.
Associate Professor of Economic Geology, Leland Stanford Junior University
- Elmer Reginald Drew F 1906* (Cornell G 1903) Palo Alto, Cal.
Assistant Professor of Physics, Leland Stanford Junior University
- William Russell Dudley CF 1902*† (Cornell CF 1887) Palo Alto, Cal.
Emeritus Professor of Botany, Leland Stanford Junior University
- William Frederick Durand F 1904*† (Cornell F 1892) Palo Alto, Cal.
Professor of Mechanical Engineering, Leland Stanford Junior University
- William Rankine Eckardt F 1908 Palo Alto, Cal.
Associate Professor of Mechanical Engineering, Leland Stanford Junior
- Frank Oakes Ellenwood F 1911 New York City
Acting Assistant Professor, Columbia University
- Cyril Frank Elwell G 1908 Palo Alto, Cal.
President, Poulson Wireless Telephone and Telegraph Company
- John Charles Lounsbury Fish CF 1902* (Cornell U 1892) Palo Alto, Cal.
Professor of Railroad Engineering, Leland Stanford Junior University
- Walter Kenrick Fisher G 1904*† Palo Alto, Cal.
Assistant Professor of Zoology, Leland Stanford Junior University
- Fred Finley Fitzgerald G 1906 Palo Alto, Cal.
Chemist, Oil Department, Southern Pacific Railway Company
- David Morrill Folsom A 1907 Palo Alto, Cal.
Assistant Professor of Mining, Leland Stanford Junior University
- Eleanor Anna Foshay G 1910 Los Angeles, Cal.
Teacher of Science, High School
- Edward Curtis Franklin F 1903*† (Kansas F 1890) Palo Alto, Cal.
Professor of Organic Chemistry, Leland Stanford Junior University
- David Timmons Fulloway U 1908 Honolulu, H. I.
Entomologist, United States Agricultural Station
- Harry Drake Gibbs G 1901 Manila, P. I.
Chemist, United States Bureau of Science
- Ruby Green G 1904 (Cornell F 1905) Ithaca, N. Y.
(Mrs Albert William Smith)
- Harry Lewis Haehl A 1907 Palo Alto, Cal.
Civil and Mining Engineer, Leland Stanford Junior University
- Elmon Lawrence Hall G 1910 Milwaukee, Ore.
Assistant Superintendent, Portland Gas Company
- Walter Raleigh Hamilton A 1910 San Francisco, Cal.
Geologist, Associated Oil Company
- William Draper Harkins A 1905* (Chicago G 1904) Missoula, Mont.
Professor of Chemistry, University of Montana

- Harold Heath F 1902* Palo Alto, Cal.
Professor of Zoology, Leland Stanford Junior University
- Edmund Heller A 1909 Washington, D. C.
Assistant in Charge of the Roosevelt African Collections,
United States National Museum
- Charles William Henderson U 1910 Denver, Col.
Statistician, United States Geological Survey
- Lou Henry A 1907 London, England
(Mrs Herbert Clark Hoover)
- Albert Christian Herre G 1905 Oakland, Cal.
Vice-Principal, Fremont High School
- Rose Miriam Higley G 1908 San Rafael, Cal.
Teacher, San Rafael High School
- William Arthur Hillebrand F 1905 (Cornell U 1905) Corvallis, Ore.
Professor of Electrical Engineering, Oregon Agricultural College
- Thomas Buck Hine G 1911 Palo Alto, Cal.
Graduate Student, Leland Stanford Junior University
- Herbert Clark Hoover A 1907 London, England
Manager, Director and Consulting Engineer, Various Mining Companies
- Lou (Henry) Hoover A 1907 London, England
(Mrs Herbert Clark Hoover)
- Thomas Cramer Hopkins A 1904*† (Syracuse CF 1906) Syracuse, N. Y.
Professor of Geology, Syracuse University
- Leander Miller Hoskins F 1902† Palo Alto, Cal.
Professor of Applied Mathematics, Leland Stanford Junior University
- Harry Baker Humphrey G 1904 Pullman, Wash.
Assistant Professor of Botany, Washington State College
- Shirley Hyatt G 1909 Palo Alto, Cal.
Assistant in Physics, Leland Stanford Junior University
- Halley D M Jollivette G 1911 Palo Alto, Cal.
Graduate Student, Leland Stanford Junior University
- David Starr Jordan CF 1902*† (Cornell A 1887) Palo Alto, Cal.
President, Leland Stanford Junior University
- Willis Wallace Jourdin U 1908 Hurley, N. M.
Chief Engineer, Chino Copper Company
- Masaki Kawara G 1908 Schenectady, N. Y.
Electrician, Testing Department, General Electric Company
- Vernon Lyman Kellogg CF 1902*† (Kansas G 1890) Palo Alto, Cal.
Professor of Entomology, Leland Stanford Junior University
- Dexter Simpson Kimball A 1904 Ithaca, N. Y.
Professor of Machine Design and Construction, Cornell University
- Edwin Boyse Kimball A 1907 Piedmont, Cal.
Consulting Mining Engineer
- Hugo Edmund Kramm G 1910 Ithaca, N. Y.
Instructor in Geology, Cornell University
- Shinkai Inokichi Kuwana G 1902 Tokyo, Japan
Entomologist, Imperial Agricultural Experiment Station

- Lovell Langstroth U 1908 San Francisco, Cal.
Medical Student, Cooper Medical College
- Anstruther Abercrombie Lawson F 1902 Glasgow, Scotland
Instructor in Botany, University of Glasgow
- Everett Parker Lesley F 1909 Palo Alto, Cal.
Assistant Professor of Mechanical Engineering, Leland Stanford Junior
- James Ogier Lewis Pacific Grove, Cal.
Geologist
- William Montana Mann G 1911 Cambridge, Mass.
Assistant in Entomology, Harvard University
- William Albert Manning G 1902* Palo Alto, Cal.
Assistant Professor of Mathematics, Leland Stanford Junior University
- Lillian Jane Martin F 1902* Palo Alto, Cal.
Professor of Psychology, Leland Stanford Junior University
- Charles David Marx CF 1902*† (Cornell CF 1887) Palo Alto, Cal.
Professor of Civil Engineering, Leland Stanford Junior University
- Guido Hugo Marx CF 1902 (Cornell U 1893) Palo Alto, Cal.
Professor of Mechanical Design, Leland Stanford Junior University
- Louis John Mayrele G 1907 Collahuasi, Chile
Geologist, Ponderosa Mining Company
- James Farley McClelland F 1908 (Yale F 1910) New Haven, Conn.
Professor of Mining Engineering, Yale University
- Robert Emmett McDonnell A 1908 Kansas City, Mo.
Consulting Engineer, Burns and McDonnell
- George Francis McEwen G 1909 Urbana, Ill.
Instructor in Mathematics, University of Illinois
- Ernest Alexander McGregor U 1908 Dallas, Tex.
Entomologist, United States Bureau of Entomology, Southern Investigations
- Richard Crittenden McGregor G 1909 Manila, P. I.
Assistant to Editor, Philippine Journal of Science, Bureau of Science
- James Ira William McMurphy F 1909 Palo Alto, Cal.
Instructor in Botany, Leland Stanford Junior University
- John Harrison Means A 1907 London, England
Consulting Engineer
- Arthur Henry Myer G 1911 Pittsburgh, Pa.
Fellow Industrial Research Laboratory, University of Pittsburgh
- Arthur William Meyer F 1910 Palo Alto, Cal.
Professor of Human Anatomy, Leland Stanford Junior University
- George Abram Miller CF 1902* (Illinois F 1908; Cornell F 1898) [Urbana, Ill.
Professor of Mathematics, University of Illinois
- John Pearce Mitchell G 1904 Palo Alto, Cal.
Assistant Professor of Chemistry, Leland Stanford Junior University
- Halcott Cadwalader Moreno F 1902* Palo Alto, Cal.
Associate Professor of Mathematics, Leland Stanford Junior University
- Charles S Morris G 1909 Palo Alto, Cal.
Instructor, Palo Alto High School

Harry Wheeler Morse	A 1904*	Cambridge, Mass.
Instructor in Physics, Harvard University		
Dudley Moulton	A 1910	San Francisco, Cal.
State Entomologist, Quarantine Officer		
George Munteami Murgoci	G 1905	Bucharest, Roumania
Geologist, State Lecturer in Polytechnikum		
Arthur Henry Myer	G 1911	Pittsburgh, Pa.
Fellow Industrial Research Laboratory, University of Pittsburgh		
Chester Naramore	A 1909	Coalinga, Cal.
Field Geologist, British Pacific Oil Company, Ltd.		
Erval Jackson Newcomer	G 1911	Sacramento, Cal.
Assistant, State Insectary		
John Flesher Newsom	F 1902*	Oruro, Bolivia
Consulting Mining Engineer		
Frederick William Nobs	G 1910	Matagalpa, Nicaragua
Manager Oroya Leonesa Mines		
Washington Henry Ochsner	G 1909	Los Angeles, Cal.
Consulting Geologist		
Pehr Hjalmar Olsson-Seffer	G 1903*	
(Deceased 1911)		
Wilfred Hudson Osgood	A 1905*†	Chicago, Ill.
Assistant Curator, Field Museum of Natural History		
Rose Patterson	G 1907	San Jose, Cal.
(Mrs Charles Bartlett Blackman)		
George James Peirce	F 1902*†	Palo Alto, Cal.
Professor of Botany, Leland Stanford Junior University		
Cyril E Pemberton	G 1911	Washington, D. C.
Expert, United States Bureau of Entomology		
John Rothwell Pemberton	G 1910	Buenos Aires, Argentina
Geologist		
Basil Prescott	U 1908	Matehuala, S. L. P. Mexico
Superintendent, Minas Dolores Anexas		
Albert Homer Purdue	A 1907*†	Fayetteville, Ark.
Professor of Geology, University of Arkansas		
Josephine Dows Randall	G 1909	Palo Alto, Cal.
Assistant in Botany, Leland Stanford Junior University		
George Mann Richardson	F 1902	
(Deceased 1902)		
Robert Earl Richardson	F 1909	Urbana, Ill.
Assistant, Illinois State Laboratory Natural History		
Frederick John Rogers	CF 1902* (Cornell F 1891)	Palo Alto, Cal.
Associate Professor of Physics, Leland Stanford Junior University		
Jessie Perkins Rose	G 1910	Crystal, Ore.
Private Research in Botany		
Pereley Ason Ross	G 1910	Palo Alto, Cal.
Instructor in Physics, Leland Stanford Junior University		

- Charles Augustus Rouiller A 1908 Baltimore, Md.
Assistant in Chemistry, Johns Hopkins University
- Harris Joseph Ryan F 1905*† (Cornell U 1887) Palo Alto, Cal.
Professor of Electrical Engineering, Leland Stanford Junior University
- George Holland Sabine F 1907 (Cornell G 1904) Palo Alto, Cal.
Assistant Professor of Philosophy, Leland Stanford Junior University
- Hazel Wood Severy G 1908 Pasadena, Cal.
Instructor in Chemistry, Pacific College of Osteopathy
- George Daniel Shafer G 1906 (Cornell G 1907) East Lansing, Mich.
Research Entomologist, Michigan Agricultural College
- Walter Robert Shaw A 1904* Manila, P. I.
Assistant Professor of Botany, University of the Philippines
- Solon Shedd A 1906* Pullman, Wash.
Professor of Geology, Washington State College
- Ralph Harrison Sherry G 1905 (Rensselaer F 1908) Buffalo, N. Y.
Metallurgist, Pierce Arrow Motor Car Company
- William Henry Sloan G 1904 Palo Alto, Cal.
Instructor in Chemistry, Leland Stanford Junior University
- James Rollin Slonaker FC 1905 (Chicago CF 1903) Palo Alto, Cal.
Assistant Professor of Physiology, Leland Stanford Junior University
- James Perrin Smith F 1902*† Palo Alto, Cal.
Professor of Paleontology, Leland Stanford Junior University
- Ruby Green (Bell) Smith G 1904 (Cornell F 1905) Ithaca, N. Y.
(Mrs Albert William Smith)
- Robert Evans Snodgrass G 1904* Washington, D. C.
Artist, Bureau of Entomology, United States Department of Agriculture
- John Otterbein Snyder F 1902* Palo Alto, Cal.
Assistant Professor of Zoology, Leland Stanford Junior University
- Milo Herrick Spaulding G 1904 Bozeman, Mont.
Assistant Professor of Zoology, Montana Agricultural College
- Georgina B Spooner G 1911 Palo Alto, Cal.
Graduate Student, Leland Stanford Junior University
- Herbert Spencer Stark A 1907
(Deceased 1910)
- Edwin Chapin Starks F 1904* Palo Alto, Cal.
Assistant Professor of Zoology, Leland Stanford Junior University
- Nettie Maria Stevens A 1905* Bryn Mawr, Pa.
Associate in Experimental Morphology, Bryn Mawr College
- John Maxon Stillman F 1902*† Palo Alto, Cal.
Professor of Chemistry, Leland Stanford Junior University
- Susan Gabriella Stokes A 1910 Orange, Cal.
Teacher, Orange Union High School
- Thomas Andrew Storey F 1902* New York City
Professor of Physical Training, College of the City of New York
- Robert Eckles Swain F 1903* Palo Alto, Cal.
Professor of Chemistry, Leland Stanford Junior University

- Walter Cox Taber G 1910 Washington, D. C.
Assistant Chemist, Bureau of Chemistry, Department of Agriculture
- Arthur Fay Taggart G 1910 Oruro, Bolivia
Mining Engineer, Assistant to J. F. Newsom
- Charles Henry Thompson G 1903* St. Louis, Mo.
Botanist, Missouri Botanical Gardens
- William Francis Thompson G 1910 Palo Alto, Cal.
Graduate Student, Leland Stanford Junior University
- Sidney Dean Townley F 1907 Palo Alto, Cal.
Associate Professor of Applied Mathematics, Leland Stanford Junior
- Gerald Ashley Waring A 1910 Rio de Janeiro, Brazil
Hydrographic Chief, Inspectoria de Obras Contra a Leccas
- Frank Walter Weymouth G 1909 Palo Alto, Cal.
Acting Instructor in Physiology, Leland Stanford Junior University
- William Franklin Wight A 1910 Washington, D. C.
First Assistant Botanist, United States Department of Agriculture
- Francis Xavier Williams G 1908 (Kansas F 1909) Lawrence, Kan.
Assistant Curator in Entomology, University of Kansas
- Horace Elbert Williams A 1907 Rio de Janeiro, Brazil
Geologist, Geological Survey of Brazil
- Charles Benjamin Wing CF 1902 (Cornell CG 1887) Palo Alto, Cal.
Professor of Engineering, Leland Stanford Junior University
- William Quinby Wright A 1907 Sausalito, Cal.
Chief Engineer, Northern California Mining Company
- Stewart Woodford Young F 1902* Palo Alto, Cal.
Professor of Physical Chemistry, Leland Stanford Junior University
- Hans Zinsser F 1911 Stanford University, Cal.
Professor of Bacteriology, Leland Stanford Junior University

CALIFORNIA CHAPTER

UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA

Charter Dated January 1902

Chapter Installed February 19, 1902

HISTORICAL SKETCH

Early in the fall of 1901 Professor W. A. Setchell called together the members of Sigma Xi known to be present on the faculty of the University of California, to discuss the advisability of organizing a Chapter of Sigma Xi at this institution. They were Professors W. A. Setchell and W. C. Morgan of the Yale Chapter together with Professors C. L. Cory, A. R. Ward, A. S. Eakle, W. L. Jepson, and J. N. LeConte, of the Cornell Chapter.

After a discussion, in which the sentiment was unanimous in favor of asking for a charter for a local Chapter, a committee consisting of Professors Setchell and Eakle was appointed to petition for a charter and to draw up a set of by-laws for the Chapter.

The special committee appointed at this meeting formally presented a petition to the Council for a charter, which was duly passed upon and granted, and the first regular business meeting of the California Chapter of the Society of Sigma Xi was called to order on February 19, 1902, by Professor Setchell.

The committee appointed to petition for a charter and to draw up a set of by-laws for the Chapter announced that a charter had been granted, and they presented a set of by-laws, which were adopted, after which an election of officers was held.

Five meetings were held before the close of the college year, mostly devoted to the transaction of business and the election and initiation of new members from the student body, as well as from the faculty. During the seven years of the Chapter's existence since this time an average of eight meetings a year have been held. Some of these meetings have been for the transaction of business only, but usually papers or addresses have been presented on these occasions, sometimes of a popular nature and open to the public, but more often the meetings have been restricted to the members of the Chapter.

In the fall of 1903 the Chapter decided to abandon the method of election of new members by general vote of the Chapter, and substituted for it an Electoral Council consisting of the President and Recording Secretary and seven other members, who are elected annually. After investigation of any candidates nominated for membership in the Society, the Council elects such a number of them as they consider worthy.

A joint meeting of the Stanford and the California Chapters was held September 23, 1905, with a banquet at the California Hotel, San Francisco, in honor of Professor S. W. Williston, Past President of the

National Society. Thirty-three members of the California Chapter and sixteen members of the Stanford Chapter were present. Toasts were responded to by President Jordan and Professors Williston, Wing, Torrey, and Stringham. Professor Miller of Stanford presided.

The first of a proposed series of annual joint meetings of the Stanford and California Chapters of Sigma Xi was to have been held on Saturday, April 21, 1906, at the California Hotel, San Francisco. On account of the fire of April 18, the meeting was indefinitely postponed, and no actual joint meetings have since been held, although the plan is still adhered to.

In view of the fact that the local authorities were doing nothing to combat the spread of bubonic plague through the town of Berkeley, the local Chapter of Sigma Xi actively interested itself in stirring up sentiment to compel the adoption of preventive measures. A special committee was appointed to investigate the conditions actually existing in the region about San Francisco Bay and to report to the Society. They presented an exhaustive review of the situation and made recommendations for its betterment. Inasmuch as public funds were not available for the purpose of sanitary measures, the Chapter started a subscription among its own membership and in a few minutes raised three hundred and twenty-five dollars. This was the beginning of a public subscription for sanitary work in the town of Berkeley, which afterwards amounted to more than ten thousand dollars.

The report of the investigating committee was printed for local distribution, and has since been sent upon request pretty widely throughout the country, to the various health officers. Various clubs and civic organizations throughout the town were organized for the work, public meetings were held, and a live interest in the situation was stirred up throughout the community, with the result that the danger seems to have been completely averted.

In an academic way also the Chapter is taking a very keen interest in local conditions, and after thorough investigation has made recommendations on one or two occasions which have been adopted and carried out by proper authorities in the University.

W. C. M.

PUBLICATIONS

Report, in part, of the Committee of the Society of the Sigma Xi on the Plague Conditions in Berkeley, San Francisco, and Oakland. Published in *Eradicating Plague from San Francisco* Report of the Citizens' Health Committee and an Account of its Work. March 31, 1909.

OFFICERS FOR 1911-12

President.....	MELLEN W. HASKELL
Vice-President.....	RULIFF STEPHEN HOLWAY
Recording Secretary.....	HARVEY MONROE HALL
Corresponding Secretary.....	EDMOND O'NEILL
Treasurer.....	JOSEPH NISBET LECONTE
Councilor.....	JOHN CAMPBELL MERRIAM

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MEMBERSHIP ROLL

Everette Eugene Adams	U 1904	Chicago, Ill.
Civil Engineer with John D. Isaacs		
Edwin Larned Adams	U 1908	Berkeley, Cal.
Civil Engineer, Associated Transit Company		
Edward von Adelung	G 1910	Oakland, Cal.
Professor of Medicine, Oakland College of Medicine and Surgery		
Alex Adler	U 1902	
(Deceased 1905)		
Robert Grant Aitken	F 1907*†	Mt. Hamilton, Cal.
Astronomer, Lick Observatory		
Sebastian Albrecht	G 1904	Córdoba, Argentina
First Astronomer, Observatorio Nacional		
William Fitch Allen	F 1908 (Stanford A 1907)	Minneapolis, Minn.
Instructor in Histology, University of Minnesota		
Arthur Carl Alvarez	U 1908	Berkeley, Cal.
Instructor in Civil Engineering, University of California		
Frank M Anderson	G 1909* (Stanford A 1904)	Berkeley, Cal.
Geologist, Southern Pacific Railway Company		
Leroy Anderson	F 1908* (Cornell U 1902)	Berkeley, Cal.
Professor of Agriculture, University of California		
John Wesley Atkinson	G 1910	Betteravia, Cal.
Manager, Union Sugar Company		
Ernest Brown Babcock	G 1906	Berkeley, Cal.
Assistant Professor of Agricultural Education, University of California		
Harold Delos Babcock	F 1908	Pasadena, Cal.
Physicist, Mt. Wilson Solar Observatory		
Benjamin Allen Baird	G 1910	San Francisco, Cal.
Assistant Engineer, City and County of San Francisco		
Frank Baird	G 1910	Berkeley, Cal.
Metallurgist		
Samuel Ellsworth Bailey	U 1909	San Francisco, Cal.
Medical Student, University of California		
Ned Duncan Baker	U 1909	Sacramento, Cal.
Inspector, California State Board of Health		
Frank Watts Bancroft	F 1902*	New York City
Associate, Rockefeller Institute for Medical Research		
George Henry Bardsley	G 1911	Berkeley, Cal.
Fellow in Physics, University of California		
Herbert Aubrey Barre	G 1910	New York City
Engineer, Electric Operating Construction Company		
Samuel Alfred Barrett	G 1910	Milwaukee, Wis.
Curator of Anthropology, Public Museum of Milwaukee		
David Prescott Barrows	F 1910	Berkeley, Cal.
Professor of Education, University of California		

James Milne Barry	U 1910	San Francisco, Cal.
Edgar Baruch	U 1902 Consulting Chemical Engineer	Los Angeles, Cal.
Bennett Routh Bates	G 1908 Miner	Los Angeles, Cal.
Roger Lee Beals	G 1910 Metallurgist	Rosini, Sinaloa, Mexico
Scott Ingalls Beaser	G 1910 Construction Engineer, Kern Trading Oil Company	Berkeley, Cal.
Henry Ward Beecher	U 1906 Engineer, Charles C. Moore and Company	Seattle, Wash.
Benjamin Abram Bernstein	F 1909 Instructor in Mathematics, University of California	Berkeley, Cal.
Lynne John Bevan	U 1905 Miner	Berkeley, Cal.
Henry Chalmers Biddle	F 1903*† Assistant Professor of Chemistry, University of California	Berkeley, Cal.
Adolf Frederick Bittner	U 1907 Head, Department of Mathematics, Jefferson High School	Portland, Ore.
Milton Julius Blackman	U 1904 The Blackman Drug Company	San Francisco, Cal.
Edwin Mortimer Blake	F 1902* (Columbia G 1900)	New York City
Walter Charles Blasdale	F 1902* Associate Professor of Chemistry, University of California	Berkeley, Cal.
Howard Hamilton Bliss	U 1909 Head of Physics Department, Cogswell Polytechnical College	San Francisco, Cal.
George Deroy Blood	G 1910 Superintendent, Silver King Coalition Mines Company	Park City, Utah
Frank Fulton Bloomer	U 1908 Mechanical Engineer	Los Angeles, Cal.
Alfred August Blowski	U 1910 Chief Chemist, Alameda Sugar Company	Alameda, Cal.
Sanford Blum	G 1910 Physician, Instructor in Pediatrics, University Medical School	San Francisco, Cal.
John Freeman Bovard	U 1903 Professor of Zoology, University of Oregon	Eugene, Ore.
Harold Cornelius Bradley	G 1910 Professor of Chemistry, University of Wisconsin	Madison, Wis.
James Chester Bradley	G 1907* (Cornell U 1906) Assistant Professor of Entomology, Cornell University	Ithaca, N. Y.
Phillip Reed Bradley	G 1910 Mining Engineer	New York City
Townshend Smith Brandegee	F 1906 Curator of Herbarium, University of California	Berkeley, Cal.
Simpson Leroy Brown	G 1909	Vincennes, Ind.

Warner Brown	G 1910	Berkeley, Cal.
Instructor in Psychology, University of California		
Spencer Cochrane Browne, Jr	U 1906	Oakland, Cal.
Mining Engineer		
Harold Child Bryant	G 1910	Berkeley, Cal.
Fish and Game Commission Research Fellow, University of California		
Alexander Sterling Bunnell	U 1907	San Francisco, Cal.
Physician, Instructor in Surgery, University Medical School		
Theodore Cr��t�� Burnett	F 1908	Berkeley, Cal.
Instructor in Physiology, University of California		
Herbert Alexander Burns	G 1903	Oakland, Cal.
Chemical Engineer, Western Precipitation Company		
John Albert Burgess	U 1906	Wonder, Nev.
Superintendent, Nevada Wonder Mining Company		
George Kimball Burgess	F 1902*†	Washington, D. C.
Associate Physicist, U. S. Bureau of Standards		
Charles Butters	G 1910	San Francisco, Cal.
Metallurgist		
John Richard Cahill	U 1905	San Francisco, Cal.
Consulting Engineer		
Frank Cathcart Calkins	U 1902*	Washington, D. C.
Assistant Geologist, U. S. Geological Survey		
William Wallace Campbell	F 1902*†	Mt. Hamilton, Cal.
Director of Lick Observatory, University of California		
Henry Benjamin Carey	F 1906 (Minnesota U 1900)	San Francisco, Cal.
Physician and Surgeon		[Cal.]
Alfred Joseph Champreux	F 1904	San Francisco, Cal.
Pacific Telegraph and Telephone Company		
Albert Edward Chandler	F 1910	San Francisco, Cal.
Assistant Professor of Institutions of Irrigation		
Marvin Lee Chappel	G 1910	Point Richmond, Cal.
Chemist		
Ch��n tao Chen	G 1910	New Haven, Conn.
Student, Yale University		
Victor King Chesnut	G 1910	Bozeman, Mont.
Chemist		
Samuel Benedict Christy	CF 1910*†	Berkeley, Cal.
Professor of Mining, University of California		
Bruce Lawrence Clark	G 1910	Berkeley, Cal.
Instructor in Paleontology, University of California		
Frank Cuthbert Clarke	U 1911	Berkeley, Cal.
Fellow in University of California		
Warren Thompson Clarke	F 1906	Berkeley, Cal.
Assistant Professor of Horticulture, University of California		
Ernest Winton Cleary	G 1910	San Francisco, Cal.
James Sollitt Colbath	U 1902	San Francisco, Cal.
Mining Engineer		

John Henry Collier	G 1910	Haydenhill, Cal.
Superintendent, Lassen Mining Company		
Clinton C Conrad	U 1910	Berkeley, Cal.
Sidney Bruce Cooper	U 1910	Schenectady, N. Y.
William Forest Copeland	U 1903	Alameda, Cal.
	Mining Engineer	
Harvey Wiley Corbett	G 1910	New York City
	Architect	
Clarence Linus Cory	CF 1901*†	Berkeley, Cal.
Professor of Electrical Engineering, University of California		
Frederick Gardner Cottrel	F 1903*	Berkeley, Cal.
Assistant Professor of Physical Chemistry, University of California		
John Walker Craig	G 1910	Bulawayo, Rhodesia
	Mining Engineer	
Russel Tracy Crawford	G 1902*	Berkeley, Cal.
Associate Professor of Astronomy, University of California		
Fred Wilbur Crocker	U 1904	Los Angeles, Cal.
Vice-President, Mercerian Bridge and Construction Company		
Albert Scott Crossfield	U 1910	Pittsburgh, Pa.
	Chemist, Bureau of Mines	
David Raymond Curtiss	G 1910	Evanston, Ill.
Professor of Mathematics, Northwestern University		
Ralph Hamilton Curtiss	G 1902* (Michigan G 1907)	Ann Arbor, Mich.
Junior Professor of Astronomy, University of Michigan		
Emil Frank Cykler	U 1911	San Francisco, Cal.
	Civil Engineering	
Lyman Luther Daines	G 1911	Berkeley, Cal.
Fellow in University of California		
Arnold Abraham D'Ancona	G 1910	San Francisco, Cal.
Dean of College of Medicine, University of California		
John Franklin Daniel	F 1910	Berkeley, Cal.
Instructor in Zoology, University of California		
George Davidson	C 1901*†	Berkeley, Cal.
Emeritus Professor of Geography, University of California		
James Grant Davidson	G 1905	Vancouver, B. C.
Professor of Physics, McGill University College		
Thomas Andrew Davidson	G 1911	Berkeley, Cal.
Fellow in Electrical Engineering, University of California		
Robert Geiser Davies	G 1911	Berkeley, Cal.
Assistant in Mineralogy and Geology, University of California		
Benjamin Marshall Davis	G 1903*	Oxford, Ohio
Professor of Agricultural Education, Miami University		
Donald Walton Davis	U 1906	Cambridge, Mass.
Assistant in Zoology, Harvard University		
Elmer Fred Davis	U 1910	Berkeley, Cal.

Harvey Lewis Davis	U 1909	Mesa Grande, Cal.
Clarence Edward Day	U 1905	San Francisco, Cal.
Office Assistant, Southern Pacific Railroad		
William Peyton Day	U 1905	San Francisco, Cal.
Engineer with John B. Leonard		
Hiram Delos Densmore	G 1906	Beloit, Wis.
Professor of Botany, Beloit College		
Charles Derleth, Jr	F 1904	Berkeley, Cal.
Professor of Engineering, University of California		
Henry Dirvendorf Dewell	U 1906	San Francisco, Cal.
Engineer, Galloway and Markwart, Construction Engineers		
Fred Austin Dick	U 1904	Oroville, Cal.
Western Pacific Railroad		
John Leslie Dobbins	U 1907	Ely, Nev.
Civil Engineer, Nevada Consolidated Copper Mine		
Harrie Carlton Dod	U 1910	San Francisco, Cal.
Charles Thomasson Dozier	G 1903	Berkeley, Cal.
Mining Engineer		
Elmer Reginald Drew	G 1910	Palo Alto, Cal.
Professor of Physics, Leland Stanford Junior University		
Arthur Eilbert Drucker	G 1910	Taracol, Korea
Metallurgical Engineer		
Ernest Ingalls Dyer	G 1910	San Francisco, Cal.
Chief Engineer, Union Oil Company of California		
Arthur Starr Eakle	CF 1901*† (Cornell U 1892)	Berkeley, Cal.
Assistant Professor of Mineralogy, University of California		
Stanley Alexander Easton	G 1910	Kellogg, Ida.
Manager, Bunker Hill and Sullivan Mining and Concentrating Company		
Adolphus James Eddy	U 1910	Berkeley, Cal.
Instructor in Engineering, University of California		
Hiram Wheeler Edwards	U 1908	Berkeley, Cal.
Assistant in Physics, University of California		
Sturla Einarsson	F 1906 (Minnesota U 1905)	Berkeley, Cal.
Instructor in Astronomy, University of California		
Leo Eloesser, Jr	G 1910	San Francisco, Cal.
Physician, Assistant in Surgery, University of California		
Thomas Sidney Elston	F 1904	Berkeley, Cal.
Instructor in Physics, University of California		
Saul Epstein	G 1910 (Chicago CF 1903)	Boulder, Col.
Professor of Mathematics, University of Colorado		
Joseph Erlanger	G 1910 (Washington F 1911)	St. Louis, Mo.
Professor of Physiology, Washington University		
Calvin Olin Esterly	U 1902	Los Angeles, Cal.
Professor of Biology, Occidental College		
Bernard Alfred Etcheverry	U 1902	Berkeley, Cal.
Associate Professor of Irrigation, University of California		

Herbert McLean Evans	U 1904	Baltimore, Md.
Physician, Johns Hopkins Medical School		
Ernest Ellsworth Everett	U 1902	Ventura, Cal.
Civil Engineer		
Harold Wellman Fairbanks	G 1910	Berkeley, Cal.
Geographer and Author		
John Randolph Farrell	G 1910	San Francisco, Cal.
Mining Engineer		
Edward Arthur Fath	G 1907	Pasadena, Cal.
Assistant, Mt. Wilson Observatory		
Dozier Finley	U 1902	Emeryville, Cal.
Assistant Superintendent, Paraffine Paint Company		
William Lovell Finley	G 1910	Berkeley, Cal.
Lecturer and Author		
Martin Henry Fischer	F 1903*†	Cincinnati, Ohio
Professor of Physiology, University of Cincinnati		
Ernest Flammer	U 1903	Chicago, Ill.
Western Electric Company		
Joseph Marshall Flint	F 1902*†	New Haven, Conn.
Professor of Surgery, Yale University		
Donald Eastman Fogg	U 1905	Martinez, Cal.
Superintendent, Peyton Chemical Works		
Charles Noyes Forbes	U 1908	Honolulu, H. I.
Curator of Herbarium, Bishop Museum		
Samuel Fortier	F 1904*	Washington, D. C.
U. S. Department of Agriculture, Division of Irrigation		
Ebert Arnold Foster	G 1910	Spokane, Wash.
Mining Engineer		
Herbert Bismarck Foster	U 1907	Berkeley, Cal.
Sanitary Engineer, University of California		
Guy Owen Fraser	U 1907	Culebra, C. Z.
Junior Engineer, Isthmian Canal Commission		
Eustace Leopold Furlong	F 1906	Berkeley, Cal.
Assistant in Paleontology, University of California		
Nathaniel Lyon Gardner	G 1905	Los Angeles, Cal.
Polytechnic High School		
Frederic Parker Gay	F 1910	Berkeley, Cal.
Professor of Pathology, University of California		
Earl Graham Gaylord	U 1911	San Francisco, Cal.
Field Geologist, Southern Pacific Company		
George Clark Gester	U 1909	Berkeley, Cal.
Pliny Earle Goddard	F 1903*†	New York City
Anthropologist, American Museum of Natural History		
Thomas Harper Goodspeed	G 1911	Berkeley, Cal.
Assistant in Botany, University of California		
Ralph Amos Gould	A 1907*	San Francisco, Cal.
Chemist, U. S. Bureau of Chemistry		

Alexander Edward Graham	G 1907	Berkeley, Cal.
Inspector, U. S. Bureau of Animal Industry		
Arthur Wellington Gray	F 1905	Washington, D. C.
Assistant Physicist, U. S. Bureau of Standards		
William Beckhout Greeley	G 1910	Missoula, Mont.
Forester		
Joseph Grinnell	F 1909	Berkeley, Cal.
Director of Museum of Vertebrate Zoology, University of California		
Elmer Edgar Hall	F 1902* (Cornell G 1902)	Berkeley, Cal.
Associate Professor of Physics, University of California		
Harold Morris Hall	U 1907	Los Angeles, Cal.
Sales Engineer, General Electric Company		
Harvey Monroe Hall	G 1902*	Berkeley, Cal.
Assistant Professor of Botany, University of California		
Irving Hardesty	F 1902*	New Orleans, La.
Professor of Anatomy, Tulane University		
Clarence Melvin Haring	F 1905 (Cornell U 1904)	Berkeley, Cal.
Assistant Professor of Veterinary Science, University of California		
Frank Mason Harris	U 1910	Vina, Cal.
Joseph Alexander Hartley	U 1907	Los Angeles, Cal.
Secretary, The Braun Corporation		
Frederick Addison Harvey	U 1905	Syracuse, N. Y.
Assistant Professor of Physics, Syracuse University		
Richard Warren Harvey	F 1909	Berkeley, Cal.
Instructor in Anatomy, University of California		
Mellen Woodman Haskell	F 1902*†	Berkeley, Cal.
Professor of Mathematics, University of California		
Henry Hay	G 1910	London, England
Mining Engineer		
Carl Edward Heise	G 1910	San Francisco, Cal.
William Brodbeck Herms	F 1908 (Ohio G 1906)	Berkeley, Cal.
Assistant Professor of Entomology, University of California		
Henry Nathan Herrick	U 1907	Berkeley, Cal.
Assistant in Mining, University of California		
Frederic Charles Herrmann	G 1910	Calexico, Cal.
Engineer, California Development Company		
Ernest Albion Hersam	F 1902*	Berkeley, Cal.
Associate Professor of Metallurgy, University of California		
Frederick Godfray Hesse	CF 1901	
(Deceased)		
Eugene Waldemar Hilgard	CF 1901*†	Berkeley, Cal.
Emeritus Professor of Agriculture, University of California		
Bruce Vickroy Hill	F 1903	Chicago, Ill.
Bell Telephone Company		
Clarence Floyd Hirshfeld	G 1910 (Cornell G 1903)	Ithaca, N. Y.
Professor of Gas Power Engineering, Cornell University		

Carl Leslie Hoag	G 1910 University Hospital	San Francisco, Cal.
Fred Miller Hofer	G 1911 Mining Engineer	Kellogg, Ida.
George Jacob Hoffman	G 1910 Mining Engineer	Oakland, Cal.
Karl Frederick Hoffman	G 1910 Mining Engineer	Johannesburg, South Africa
Ross Browne Hoffman	G 1910 Consulting Engineer	Oakland, Cal.
Samuel Jackson Holmes	G 1909 Assistant Professor of Zoology, University of Wisconsin	Madison, Wis.
Ruliff Stephen Holway	F 1907 Assistant Professor of Geography, University of California	Berkeley, Cal.
Henry Horn	G 1891 Physician	San Francisco, Cal.
William T Horne	F 1911 Assistant Professor of Plant Pathology, University of California	Berkeley, Cal.
Walter Leroy Huber	U 1905 Engineer, U. S. Forest Service	San Francisco, Cal.
Loren Edward Hunt	F 1907 Engineer, City Engineer's Office	San Francisco, Cal.
Dwight Brunell Huntley	G 1910 Mining Engineer	Oakland, Cal.
Charles Gilman Hyde	F 1906 Professor of Engineering, University of California	Berkeley, Cal.
Eugene Law Ickes	U 1909 Mining Engineer	Los Angeles, Cal.
Samuel Irving	G 1910 Manager, Paraffine Paint Company	Berkeley, Cal.
Abraham Wendell Jackson	G 1910	New York City
Gaskell Samuel Jacobs	U 1909 Engineer, J. G. White and Company	San Francisco, Cal.
Myer Edward Jaffa	F 1906† Professor of Nutrition, University of California	Berkeley, Cal.
Willis Linn Jepson	CF 1901* (Cornell G 1895) Associate Professor of Botany, University of California	Berkeley, Cal.
Frank Edward Johnson	G 1910 Instructor in Soils, University of California	Berkeley, Cal.
Fred Lyle Johnston	U 1902 City Engineer	Santa Barbara, Cal.
Harry James Kesner	F 1910 Instructor in Engineering, University of California	Berkeley, Cal.
Alson Raphael Kilgore	U 1909 Student at Harvard Medical School	Boston, Mass.
Eugene Sterling Kilgore	G 1910 Medical Examiner, University of California	Berkeley, Cal.

Arthur Scott King	G 1902	Pasadena, Cal.
Director of Laboratory, Mt. Wilson Observatory		
Robert Allen Kinzie	G 1910	Alaska
Superintendent, Treadwell Mine		
Frank Louis Kleeberger	U 1908	Tucson, Ariz.
Instructor in Chemistry, University of Arizona		
Adolph Knopf	U 1904	Washington, D. C.
Geologist, U. S. Geological Survey		
Charles Atwood Kofoid	F 1902*†	Berkeley, Cal.
Professor of Zoology, University of California		
Herman Kower	F 1902	Berkeley, Cal.
Associate Professor of Drawing, University of California		
Charles August Kraus	G 1902	Boston, Mass.
Research Assistant, Massachusetts Institute of Technology		
Walter Carl Krenz (Deceased 1910)	U 1908	
Alfred Louis Kroeber	F 1903*†	Berkeley, Cal.
Assistant Professor of Anthropology, University of California		
Charles Kuschke	F 1909	Berkeley, Cal.
Instructor in Mathematics, University of California		
Arthur Lachman	G 1910	San Francisco, Cal.
Merchant		
Fred Laist	G 1910	Anaconda, Mont.
Chemist		
Cornelius B Lakenan	G 1910	Ely, Nev.
General Manager, Nevada Consolidated Copper Company		
Herbert Oliver Lang	G 1910	Oakland, Cal.
Mining Engineer		
Esper Signius Larsen, Jr	U 1906	Washington, D. C.
Assistant Petrographer, U. S. Geological Survey		
Anstruther Abercrombie Lawson	G 1910	Edinburgh, Scotland
Botanist		
Andrew Cowper Lawson	CF 1908*†	Berkeley, Cal.
Professor of Geology, University of California		
Joseph Nisbet LeConte	CF 1901 (Cornell G 1892)	Berkeley, Cal.
Associate Professor of Engineering, University of California		
Derick Norman Lehmer	F 1903* (Nebraska, G 1899)	Berkeley, Cal.
Associate Professor of Mathematics, University of California		
Felix Lengfeld	G 1910	San Francisco, Cal.
Armin Otto Leuschner	CF 1901*†	Berkeley, Cal.
Professor of Astronomy, University of California		
Exum Percival Lewis	F 1902*	Berkeley, Cal.
Professor of Physics, University of California		
William Henry Linney	G 1910	Spokane, Wash.
Mining Engineer		

Charles Bernard Lipman	G 1909	Berkeley, Cal.
Assistant Professor of Soils, University of California		
Walter Colton Little	U 1911	San Francisco, Cal.
Civil Engineering		
Jacques Loeb	F 1903*†	New York City
Member, Rockefeller Institute for Medical Research		
Maurice Ennis Lombardi	G 1910	Berkeley, Cal.
Superintendent of Construction, Kern Trading Oil Company		
Joseph Abraham Long	F 1908	Berkeley, Cal.
Instructor in Zoology, University of California		
George Davis Louderback	F 1906*	Berkeley, Cal.
Associate Professor of Geology, University of California		
Robert Hills Loughridge	F 1904*	Berkeley, Cal.
Emeritus Professor of Chemistry, University of California		
Thomas Calvin MacKay	F 1905*	Socorro, N. M.
Professor of Physics, New Mexico State School of Mines		
James Davis Maddrill	G 1904*	Ukiah, Cal.
Astronomer in Charge, International Latitude Observatory		
William Henry Markley	U 1906	Turlock, Cal.
Farmer		
Arthur Hermann Markwart	G 1904	San Francisco, Cal.
Civil Engineer, Galloway and Markwart		
Samuel Steen Maxwell	F 1906*	Berkeley, Cal.
Associate Professor of Physiology, University of California		
Alexander George McAdie	A 1907*†	San Francisco, Cal.
Professor of Meteorology, U. S. Weather Bureau		
John Bruce McCallum	F 1904*	
(Deceased 1906)		
Carl Howard McCharles	U 1909	Berkeley, Cal.
Instructor in Chemistry, University of California		
William Clyde McDonald	U 1909	San Francisco, Cal.
Superintendent, Warren Brothers Company		
Elwood Mead	F 1903*†	Melbourne, Australia
Chief of Victoria Water Commission		
William Wallace Mein	G 1910	Johannesburg, South Africa
Consulting Engineer		
Abraham Louis Menzin	U 1907	San Francisco, Cal.
Engineer, Tracy Engineering Company		
John Campbell Merriam	F 1902*†	Berkeley, Cal.
Associate Professor of Paleontology, University of California		
Charles Washington Merrill	G 1910	San Francisco, Cal.
Metallurgist		
William Ferdinand Meyer	G 1908	Berkeley, Cal.
Instructor in Astronomy, University of California		
Ellis Leroy Michael	G 1908	La Jolla, Cal.
Naturalist, Marine Biological Station		

Irving Miller	G 1910	Los Angeles, Cal.
Instructor in Mathematics, California School		
Loye Holmes Miller	G 1902	Los Angeles, Cal.
Professor of Biology, Head of Science Department, State Normal School		
Ralph Smith Minor	F 1904*	Berkeley, Cal.
Associate Professor of Physics, University of California		
Ralph Thomas Mishler	U 1905	Mexico
Mining Engineer, Antimony Trust Company		
Herbert Charles Moffit	G 1910	San Francisco, Cal.
Physician		
Robert Orton Moody	F 1902* (Cornell F 1901)	Berkeley, Cal.
Assistant Professor of Anatomy, University of California		
Wilber Ladde Moody	U 1911	San Francisco, Cal.
Geologist		
Arthur Russell Moore	F 1911	Berkeley, Cal.
Assistant Professor of Physiology, University of California		
Fremont Morse	G 1910	Berkeley, Cal.
Fred Wellington Morse	G 1910	Oakland, Cal.
Physician		
James Daniel Mortimer	G 1910	New York City
Electrician		
William Conger Morgan	CF 1901*† (Yale U 1896)	Berkeley, Cal.
Assistant Professor of Chemistry, University of California		
Sanford Alexander Moss	G 1910	West Lynn, Mass.
Mechanical Engineer, General Electric Company		
William Warner Mott	U 1905	Berkeley, Cal.
Albert Henry Mowbray	U 1904	Raleigh, N. C.
Actuary, North Carolina Insurance Company		
Charles Harper Munro	G 1910	San Francisco, Cal.
Mining Engineer		
Arthur Charles Nahl	G 1910	Triunfo, Baja Cal., Mex.
General Manager, Progreso Mining Company		
Nels Christian Nelson	G 1908	New York City
Assistant Curator, American Museum of Natural History		
Joseph Newfield	U 1902	San Francisco, Cal.
Drug Manufacturer		
Burt Leroy Newkirk	F 1903* (Minnesota G 1898)	Minneapolis, Minn.
Assistant Professor of Mathematics, University of Minnesota		
John Carroll Nichols	G 1910	Benoni, Transvaal
Maurice Barstow Nichols	G 1908	Oakland, Cal.
Teacher of Botany, High School		
Charles Albert Noble	F 1902*	Berkeley, Cal.
Associate Professor of Mathematics, University of California		
Grover Chester Noble	U 1902	Berkeley, Cal.
Assistant Professor of Engineering, University of California		

Robert Stewart Norris	G 1910	Honolulu, H. I.
Chemist, Sugar Planters' Association		
Perley Gilman Nutting	G 1910	Washington, D. C.
Physicist, U. S. Bureau of Standards		
Edwin Letts Oliver	G 1910	Grass Valley, Cal.
Metallurgist		
Ernest Warner Oliver	G 1910	Los Angeles, Cal.
Teacher, High School		
Edmond O'Neill	CF 1903*†	Berkeley, Cal.
Professor of Chemistry, University of California		
Harry Jonas Oser	U 1908	San Francisco, Cal.
Engineer, Oser Brothers		
William Lincoln Oser	U 1909	Berkeley, Cal.
Engineer, Oser Brothers		
Vance Craigmiles Osmont	G 1903	San Francisco, Cal.
Mining Engineer		
Winthrop John Vanleuven Osterhout	CF 1902*	Cambridge, Mass.
Assistant Professor of Botany, Harvard University		
Karl Wolfgang Ostwald	G 1906	Berlin, Germany
Privat Docent, University of Berlin		
Robert Wallace Pack	U 1908	Washington, D. C.
Assistant Geologist, U. S. Geological Survey		
Charles Palache	A 1907*	Cambridge, Mass.
Assistant Professor of Mineralogy, Harvard University		
Harold King Palmer	G 1902*	Los Angeles, Cal.
Junior Engineer, U. S. Indian Irrigation Service		
Theodore Sherman Palmer	G 1910	Washington, D. C.
Assistant Chief, U. S. Biological Survey		
George Cooper Pardee	G 1910	Oakland, Cal.
Oculist		
William Bell Parker	U 1911	Berkeley, Cal.
Entomologist		
Louis Alexander Parsons	F 1905*	Gettysburg, Pa.
Professor of Physics, Pennsylvania College		
Vyacheslav Petrovsky	G 1911	Berkeley, Cal.
Assistant in Physics, University of California		
William Charles Peyton	G 1911	San Francisco, Cal.
Chemist		
Robert Dickson Pike	U 1907	Los Angeles, Cal.
C. W. Pike Company		
Juan de la Cruz Posada	G 1910	Medellin, Colombia
Frederic Ward Putnam	F 1903*†	Cambridge, Mass.
Professor Emeritus of Anthropology, Harvard University		
Thomas Milton Putnam	F 1904*	Berkeley, Cal.
Assistant Professor of Mathematics, University of California		
Henry Josef Quayle	F 1911	Berkeley, Cal.
Assistant Professor of Entomology, University of California		

Thomas Wells Ransom	G 1910 Consulting Engineer	San Francisco, Cal.
Frederick Leslie Ransome	A 1906*† Geologist, U. S. Geological Survey	Washington, D. C.
Walter Harris Ratcliff	U 1903 Architect, Ratcliff and Jacobs	Berkeley, Cal.
William James Raymond	F 1905* Associate Professor of Physics, University of California	Berkeley, Cal.
William Henry Rees	G 1910 Chemist	Alvarado, Cal.
Herman White Reynolds	F 1909 Associate Professor of Engineering, University of California	Berkeley, Cal.
Charles Pierce Richmond	U 1902 Mining Engineer	Pomona, Cal.
Wallace Clifford Riddell	U, 1911 Chemist	Berkeley, Cal.
Willard Bradley Rising (Deceased 1910)	F 1902*†	
William Emerson Ritter	CF 1901*† Director, Marine Biological Station	La Jolla, Cal.
Edward Austin Rix	G 1910 President, Rix Compressed Air and Drill Company	San Francisco, Cal.
Emmet Rixford	G 1910 Surgeon	San Francisco, Cal.
Oswald Hope Robertson	U 1910	Oakland, Cal.
Thorburn Brailsford Robertson	F 1906 Associate Professor of Chemistry, University of California	Berkeley, Cal.
John Wooster Robertson	G 1910 Physician, Owner of Livermore Sanitarium	Livermore, Cal.
Wendell Prescott Roop	G 1909 Assistant in Physics, University of California	Berkeley, Cal.
Frank Elmore Ross	G 1910 Astronomer, International Geodetic Association	Gaithersburg, Md.
Herbert William Ross	U 1905 Metallurgist, Backus and Johnston Company	Casapalco, Peru
Glanville Yeisley Rusk	F 1911 Assistant Professor of Pathology, University of California	Berkeley, Cal.
Yasudiro Sakac	U 1904 Mechanical Engineer	Kurume, Japan
Joseph A Sampson	U 1910	San Francisco, Cal.
Augustus Valentine Saph	F 1902 (Cornell G 1902) Civil Engineer with John Leonard	San Francisco, Cal.
Wilbur Augustus Sawyer	F 1911 Director, State Hygienic Laboratory	Berkeley, Cal.
Waldemar Theodore Schaller	A 1908* Mineralogist, U. S. Geological Survey	Washington, D. C.

Andrew D Schindler	G 1910	San Francisco, Cal.
Carl Louis August Schmidt	U 1908	San Francisco, Cal.
Chemist, Metropolitan Gas Company		
Walter August Schmidt	U 1906	Los Angeles, Cal.
Engineer, Western Precipitation Company		
Fred Hanley Seares	G 1910*	Pasadena, Cal.
Astronomer, Mt. Wilson Observatory		
Fred Hanley Seares, Jr	U 1909	Pasadena, Cal.
Astronomer		
William Albert Setchell	CF 1901*† (Yale CF 1895)	Berkeley, Cal.
Professor of Botany, University of California		
Harold Gibbons Sharp	U 1906	San Francisco, Cal.
Chief Engineer, Duncanson-Harrelson Company		
Leslie Theodore Sharp	U 1911	Berkeley, Cal.
Assistant in Soils, University of California		
Robert Guy Sharp	U 1911	Berkeley, Cal.
Assistant in Zoology, University of California		
William John Sharwood	F 1904	Lead, S. D.
Chief Chemist, Homestake Mining Company		
Edgar Raymond Shepard	G 1904	Corvallis, Ore.
Instructor in Physics, Oregon Agricultural College		
Robert Sibley	U 1903	Missoula, Mont.
Professor of Engineering, University of Montana		
William John Sinclair	G 1902	Princeton, N. J.
Instructor in Geology, Princeton University		
Frederick Slate	CF 1902*	Berkeley, Cal.
Professor of Physics, University of California		
Felix Teisseire Smith	U 1908	Berkeley, Cal.
Attorney		
Ralph Elliott Smith	F 1905*	Berkeley, Cal.
Professor of Botany, University of California		
William Sydney Tangier Smith	G 1910	Reno, Nev.
Professor of Geology, University of Nevada		
Harry Caesar Solomon	U 1910	Boston, Mass.
Frank Soulé	CF 1902	Berkeley, Cal.
Emeritus Professor of Engineering, University of California		
James Clarence Sperry	G 1910	Coalinga, Cal.
Field Manager, Crocker's Oil Wells		
Harry Edwin Squire	U 1906	Bremerton, Wash.
Engineer, Erection Construction Company		
Henry Walter Stager	F 1909*	Fresno, Cal.
Instructor in Mathematics, Fresno Junior College		
Alva Walker Stamper	G 1910*	Chico, Cal.
Head of Mathematics, State Normal School		
Charron Monell Staples	U 1911	Ashland, Ore.
Mining Engineer		

Joel Stebbins	G 1902* (Nebraska, G 1899)	Urbana, Ill.
Assistant Professor of Astronomy, University of Illinois		
Edward Lewis Stenger	G 1908	Keswick, Cal.
Mine Surveyor, The Mountain Copper Company, Ltd.		
John Maxson Stillman	G 1910*	Palo Alto, Cal.
Professor of Chemistry, Leland Stanford Junior University		
Howard Stillman	G 1910	Berkeley, Cal.
Mechanical Engineer		
Norman Caswell Stines	U 1905	Berkeley, Cal.
Engineer		
William Benson Storey	G 1910	Chicago, Ill.
Civil Engineer, Atchison, Topeka and Santa Fe Railroad Company		
George Malcolm Stratton	F 1903*†	Berkeley, Cal.
Professor of Psychology, University of California		
Irving Stringham	CF 1901*†	
(Deceased 1909)		
Arnold Valentine Steubenrauch	F 1902	Washington, D. C.
Bureau of Plant Industry		
Leslie Webb Symmes	G 1910	San Francisco, Cal.
Agricultural Engineer		
Alonzo Englebert Taylor	F 1900*†	Philadelphia, Pa.
Professor of Chemistry, University of Pennsylvania		
Henry William Taylor	U 1906	Albany, N. Y.
Sanitary Engineer, State Architect's Office		
Walter Penn Taylor	U 1911	Berkeley, Cal.
Assistant Curator of Mammals, University Museum of Vertebrate Zoology		
Wallace Irving Terry	G 1910	San Francisco, Cal.
Assistant Professor of Surgery, University of California Medical School		
Bartlett Leo Thane	G 1910	Juneau, Alaska
Kensington Mining Company		
Paul Thelen	U 1904	San Francisco, Cal.
Expert, Southern Pacific Company		
Rolf Thelen	U 1904	Madison, Wis.
Engineer, U. S. Bureau of Forestry		
Carl Clapp Thomas	F 1903*† (Cornell G 1895)	Madison, Wis.
Professor of Engineering, University of Wisconsin		
Frederick Horace Tibbetts	G 1907	Berkeley, Cal.
Assistant Professor of Engineering, University of California		
Lucius Moody Tolman	G 1910	Washington, D. C.
Chemist, U. S. Department of Agriculture		
Harry Beal Torrey	F 1902*	Berkeley, Cal.
Associate Professor of Zoology, University of California		
Alphonso Walker Tower	U 1905	Los Angeles, Cal.
Head of Department of Physiology, Polytechnic High School		
Sidney Dean Townley	F 1902* (Stanford F 1907)	Palo Alto, Cal.
Associate Professor of Mathematics, Leland Stanford Junior University		

Joseph Prince Tracy	U 1904 Belcher and Crane Company	Eureka, Cal.
Wilfred Charles Twiss	G 1911 Instructor in Botany, University of Utah	Salt Lake City, Utah
Edwin Cooper VanDyke	G 1910 Physician	San Francisco, Cal.
Harry Chittenden Vensano	U 1903 Civil Engineer, Pacific Gas and Electric Corporation	San Francisco, Cal.
Frederick Paul Vickery	U 1905 Peyton Chemical Works	Martinez, Cal.
Archibald Robinson Ward	CF 1901* (Cornell U 1898) Dean, College of Veterinary Science, University of the Philippines	Manila, P. I.
Thomas Talbot Waterman	F 1911 Instructor in Anthropology, University of California	Berkeley, Cal.
Wilbur Kemble Watkins	U 1908 Superintendent, Golden State Portland Cement Company	Halleck, Cal.
Floyd Rowe Watson	G 1910 Assistant Professor of Physics, University of Illinois	Urbana, Ill.
Charles Edwin Weaver	G 1905 (Washington, F 1908) Instructor in Geology, University of Washington	Seattle, Wash.
Harry Howard Webb	G 1910 Mining Engineer	London, Eng.
Charles Albert Weck	G 1910 Superintendent, Bluestone Mining and Smelting Company	Yerington, Nev.
Harry Valentine Welch	G 1911 Assistant Physical Chemist, U. S. Bureau of Mines	San Francisco, Cal.
Chester Albert Garfield Weymouth	U 1902 Cement Contractor	Berkeley, Cal.
Clarence Raymond Weymouth	G 1910 Chief Engineer, Charles C. Moore and Company	San Francisco, Cal.
Ralph Archibald White	U 1911 Instructor in Civil Engineering, University of California	Berkeley, Cal.
Albert Wurts Whitney	F 1906* Associate Professor of Mathematics, University of California	Berkeley, Cal.
Charles Abel Whitton	U 1910	Oakland, Cal.
William Wakefield Whitton	U 1905 Mining Engineer	Oakland, Cal.
Edward James Wickson	F 1905*† Dean of Agriculture, University of California	Berkeley, Cal.
Ernest Julius Wilczynski	F 1902* Associate Professor of Mathematics, University of Chicago	Chicago, Ill.
Alpheus Fuller Williams	G 1910 General Manager, De Beers Consolidated Mines	Kimberley, South Africa
Gardner Fred Williams	G 1910 Engineer, retired	Washington, D. C.
John Winkler	G 1910 Assistant in Chemistry, University of California	Berkeley, Cal.

James Hugh Wise	U 1903	San Francisco, Cal.
Engineer, Pacific Gas and Electric Corporation		
Harry Lincoln Wollenberg	U 1908	Juneau, Alaska
Miner		
Harry Oscar Wood	F 1909	Berkeley, Cal.
Instructor in Geology, University of California		
Baldwin Munger Woods	G 1910	Berkeley, Cal.
Instructor in Mathematics, University of California		
Charles William Woodworth	F 1903*	Berkeley, Cal.
Associate Professor of Entomology, University of California		
Albert Eugene Wright	U 1907	Provo, Utah
Fruit Grower		
Carey Thomas Wright	G 1911	Oakland, Cal.
Head of Science Department, John C. Freeman High School		
William Hammond Wright	F 1902*†	Mt. Hamilton, Cal.
Astronomer, Lick Observatory		
George Joseph Young	G 1910*	Reno, Nev.
Professor of Mining, University of Nevada		
Carl Gotthelf Zschockelt	U 1908	Quincy, Cal.
Operator of Power Station		

COLUMBIA CHAPTER

COLUMBIA UNIVERSITY, NEW YORK CITY

Charter Dated December 1, 1902 Chapter Installed December 19, 1902

HISTORICAL SKETCH

For more than a year before the charter was granted to the Chapter of Sigma Xi at Columbia University, the matter of petitioning the Council of the Society was under discussion. The subject was especially agitated by Lucien M. Underwood, Professor of Botany, and James F. Kemp, Professor of Geology, the latter having been initiated at Cornell during the first year of the Society's existence. Columbia was by this time well established at its new site and the conditions were ripe to carry the petition through. It was finally drawn up and signed by the following members of the faculty in the order given—

James F. Kemp, (Cornell Chapter)	Henry E. Crampton
William J. Gies, (Yale Chapter)	James H. McGregor
Edmund B. Wilson	George A. Lawrence
Henry Fairfield Osborn	Gary N. Calkins
Robert S. Woodward	Alfred J. Moses
Lucien M. Underwood	Bashford Dean
William Hallock	Marston T. Bogert
James McKeen Cattell	Walter S. Sutton (Kansas Chapter)
Livingston Farrand	Charles Zeleny (Minnesota Chapter)
Charles F. Chandler	Austin F. Rogers (Kansas Chapter)
John K. Rees	A. H. Blanchard (Brown Chapter)

The first meeting was held on December 19, 1902, in the library of the Department of Zoology. Almost all the signers of the petition were present and several additional officers or students of the University who were members of other chapters. The Charter which had been granted by the Council of the Society on December 1 was presented to the new group by Professor Edward L. Nichols of Cornell University, Chairman of the Council, and by him the Chapter was duly installed. The Chapter thereupon organized by electing the following officers:

President: James F. Kemp
Vice-President: Lucien M. Underwood
Recording Secretary: George Alfred Lawrence
Corresponding Secretary: Marston T. Bogert
Treasurer: William Hallock
Member of the Council: Henry E. Crampton

In the evening a dinner was given by the members of the Chapter in honor of Professor Edward L. Nichols who had installed the new branch of the Society.

In 1905 the Chapter appointed a committee to select representatives from former classes among the alumni to be recommended for membership in the Society. A conservative canvass was made which resulted in the Chapter electing forty-three alumni.

It is the custom of the Columbia Chapter to recruit its membership chiefly from senior classes in the Schools of Engineering and Chemistry, from graduate students in pure science and from the instructional staff in all scientific and engineering departments.

The Chapter has confined its regular activities to a few scientific meetings each year at which times some provision is usually made for a social hour. A good deal of care is taken in planning the initiation ceremonies and these have grown to be rather formal affairs. There are usually delegates from two or three neighboring chapters whose presence adds much to the dignity of the occasion. At the last initiation (1911) the Cornell, the University of Pennsylvania, and the Yale Chapters were represented.

At regular scientific meetings there is never more than one title on the program. The object is to secure the presentation of some investigation or research or a comprehensive summary of some special field. The following list will serve to indicate the scope of these discussions:

Protozoa and Disease by Professor Gary N. Calkins.

Radium and its Relations to the Structure of the Atom by Professor William Hallock.

The Panama Canal by Professor William H. Burr.

Perilous First Ascents in the Selkirks of British Columbia by Professor Herschel C. Parker.

Microscopic Examination of Opaque Substances by Professor William Campbell.

Use of Denatured Alcohol as a Fuel by Professor Charles E. Lucke.

A Zoologist's Visit to the Society Islands by Professor Henry E. Crampton.

Recent Aspects of Plant Breeding and Variation by Doctor George H. Shull.

Recent Improvements in Incandescent Lighting by Professor Herschel C. Parker and Mr. Walter G. Clark.

The Selective Reflection in the Infra-red Characteristic of Carbonates and its Relation to the Atomic Weights of the Bases by Doctor Leighton B. Morse.

Recent Progress in Electro-Chemistry by Professor Charles F. Chandler.

The Genesee River and its Bearing on the Problems of the Great Lakes by Professor Amandeus W. Grabau.

Modern Practice in Color Photography by Mr. Alfred Norton Goldsmith.

The Quebec and the Blackwell's Island Cantilever Bridges by Professor William H. Burr.

The Sanitary Protection of Tidal Waters by Doctor George A. Soper.

Exploratory Travels in the Olympic Mountains of Washington by Professor Herschel C. Parker.

Additional Water Supply from the Catskill Mountains by Professor William H. Burr.

Heredity and the Cell by Professor Edmund B. Wilson.

Electric Lighting of a Great City by Professor George F. Sever.

Many addresses of a less formal nature designed especially to add to the enjoyment or entertainment of the Chapter have been delivered in connection with the initiation ceremonies and other special occasions.

The Chapter is firmly established at Columbia. To be elected to its membership is considered a special honor. In an institution where there are so many other channels for announcing and publishing scientific investigations and where societies in every branch of science and engineering are maintained in active operation there has seemed to be no immediate call for Sigma Xi to undertake the burden of publication or to place much emphasis on the fostering of the scientific spirit. It is rather a scientific fellowship in which all branches and all interests unite and find encouragement.

C. P. B.

PUBLICATIONS

Columbia Chapter (Kappa) of the Society of the Sigma Xi. Founded 1903. Constitution and By-Laws of the General Society, list of Officers and Members, titles of papers read at meetings. May 1907. Lancaster, Pa. pp. 49.

OFFICERS FOR 1911-12

President.....	GEORGE FRANCIS SEVER
Vice-President.....	ARTHUR LUCIAN WALKER
Recording Secretary.....	SAMUEL ALFRED MITCHELL
Corresponding Secretary.....	CHARLES PETER BERKEY
Treasurer.....	SAMUEL ALFRED MITCHELL
Councilor.....	CARLTON CLARENCE CURTIS

MEMBERSHIP ROLL

Hanford Curtis Adams	U 1908 Electrical Engineer	West Palm Beach, Fla.
Arthur Aigeltinger	U 1907 Electrical Engineer, Manganese Steel Rail Company	New York City
Carl Gustave Amend	G 1909 Chemist	New York City
Morton Arendt	G 1905* Assistant Professor of Electrical Engineering, Columbia University	New York City
Huntington Clark Atwater	U 1907 Civil Engineer	Denver, Col.
Frank Ashton Ayer	U 1911 Mining Engineer, Detroit Copper Company	Morenci, Ariz.
George Baehr	U 1908 Assistant in Pathology, Mt. Sinai Hospital	New York City
Joseph Hershey Bair	G 1903* (Colorado CF 1905) Private Research	Philadelphia, Pa.
Walter Loring Barrows	G 1909 Professor of Geology, Trinity College	Hartford, Conn.

George Denton Beal	G 1910 (Illinois F 1911)	Urbana, Ill.
Instructor in Chemistry, University of Illinois		
Hal Truman Beans	G 1903	New York City
Instructor in Organic Chemistry, Columbia University		
Harold Mairs Beattie	U 1907	Chicago, Ill.
Superintendent, Hills Linseed Oil Company		
George Erle Beggs	U 1910	New York City
Civil Engineer		
Marcus Benjamin	A 1905*†	Washington, D. C.
Editor, United States National Museum		
Henry Kreitzer Benson	G 1907* (Washington CF 1907)	Seattle, Wash.
Associate Professor of Chemistry, University of Washington		
William Nathan Berg	G 1906*	Washington, D. C.
Chemist, Bureau of Animal Industry		
Charles Peter Berkey	G 1904* (Minnesota F 1906)	New York City
Assistant Professor of Geology, Columbia University		
Albin H Beyer	U 1905	Brooklyn, N. Y.
Civil Engineer		
Maurice Alpheus Bigelow	G 1905*†	New York City
Professor of Biology, Teachers College, Columbia University		
Paul Billingsley	G 1910	Butte, Mont.
Geologist, Anaconda Copper Mining Company		
Adolph Black	G 1903	New York City
Assistant Professor of Civil Engineering, Columbia University		
Frederic Columbus Blake	G 1904*	Columbus, Ohio
Assistant Professor of Physics, Ohio State University		
Arthur Horace Blanchard	CF 1903* (Brown CF 1900)	New York City
Professor of Engineering, Columbia University		
Franz Boas	G 1903*†	New York City
Professor of Anthropology, Columbia University		
Richard Frederick Böhler	G 1907	Vienna, Austria
Metallurgical Engineer, Böhler Steel Company		
Marston Taylor Bogert	CF 1903*†	New York City
Professor of Organic Chemistry, Columbia University		
Myrick Nathaniel Bolles	G 1904*	Monterey, Mexico
Metallurgist, American Smelting and Refining Company		
Stanley Frank Bond	U 1907	Long Island City, N. Y.
Electrical Engineer, Queens County Electric Light and Power Company		
Kitchell Monckton Boorman	U 1910	New York City
Civil Engineer, F. de P. Hone and Company		
Albert Clarence Boyle, Jr	G 1908	Laramie, Wyo.
Professor of Geology, University of Wyoming		
Clement S Brainin	G 1909	New York City
Assistant in Physics, Columbia University		
Clinton Brettell	U 1911	Bridgeport, Conn.
Mechanical Engineer		

Robert Wesley Briggs	U 1911	New York City
Assistant in Civil Engineering, Columbia University		
Nathaniel Lord Britton	G 1905*†	New York City
Director, New York Botanical Garden, Bronx Park		
Thomas Clachar Brown	G 1906*	State College, Pa.
Assistant Professor of Geology, Pennsylvania State College		
Kenneth Caulfield Browne	U 1910	New York City
Mining Engineer		
Charles Thomas Brues	G 1903*	Cambridge, Mass.
Instructor in Economic Entomology, Harvard University		
William Hubert Burr	G 1903*†	New York City
Professor of Civil Engineering, Columbia University		
Russell Burton-Opitz	G 1903*†	New York City
Associate Professor of Physiology, College of Physicians and Surgeons		
Gary Nathan Calkins	CF 1903*†	New York City
Professor of Zoology, Columbia University		
William Campbell	G 1904*	New York City
Associate Professor of Metallurgy, Columbia University		
Frederick A. Canfield	A 1905	Dover, N. J.
Mining Engineer		
Robert Andrew Wood Carleton	U 1904	Edgewater, N. J.
Civil Engineer		
William Morgan Carpenter	U 1909	Albany, N. Y.
Civil Engineer, New York Central Railroad		
Victor Hugo Carples	U 1910	New York City
Sales Manager, L. J. Wing Manufacturing Company		
Homer Lyman Carr	U 1910	New York City
Mining Engineer		
Alfred Ellsworth Carter	U 1904	New York City
Civil Engineer, Rapid Transit Subway Construction Company		
Albert Hermon Case	G 1906	Copper Hill, Tenn.
Acting Manager, Tennessee Copper Company		
Jules Catherinet	G 1904	
James McKeen Cattell	CF 1903*†	New York City
Professor of Psychology, Columbia University		
Reginald Wadsworth Cauchois	U 1907	New York City
Electrical Engineer, Johnson and Higgins		
Peter Bragio Cerussi	U 1909	New York City
Electrical Engineer		
Victor John Chambers	G 1903*	Rochester, N. Y.
Professor of Chemistry, University of Rochester		
Charles Frederick Chandler	CF 1903*†	New York City
Professor of Chemistry, Columbia University		
John Parke Channing	A 1905	New York City
Consulting Mining Engineer		
Elihu Cunyngham Church	G 1910	New York City
Civil Engineer, City Department of Water, Gas and Electric Supply		

John Adams Church	U 1906†	Great Falls, Mont.
Engineer, Anaconda Copper Mining Company		
Lawrence Ripley Clapp	U 1910	Silverton, Col.
Superintendent, Silver Lake Mines		
Ernest Dunbar Clark	G 1910	New York City
Instructor in Biological Chemistry, College of Physicians and Surgeons		
Frederick Huntington Clark	U 1907	New York City
Mining Engineer		
Sidney Milton Clark	U 1911	New York City
Assistant Manager, Engineering Supervision Company		
Edward Bernard Coburn	G 1903 (Union G 1888)	New York City
Physician		
Jules Auguste Coelos	U 1904	New York City
Civil Engineer		
Albert Ladd Colby	A 1905*†	South Bethlehem, Pa.
Iron and Steel Metallurgist		
George Frederick Comstock	U 1909	Pittsburgh, Pa.
Metallurgical Engineer, Crucible Steel Company of America		
Frederick Stephen Cook	U 1905	Joplin, Mo.
Mining Engineer		
Melville Fuller Coolbaugh	G 1905	Rapid City, S. D.
Professor of Chemistry, South Dakota School of Mines		
William Wakefield Corbet	U 1903 (Yale U 1900)	Brookville, Pa.
Mining Engineer		
Henry Edward Crampton	CF 1903*	New York City
Professor of Zoology, Columbia University		
Francis Bacon Crocker	G 1903*†	New York City
Professor of Electrical Engineering, Columbia University		
Burrill Bernard Crohn	U 1907	New York City
Physician, Mt. Sinai Hospital		
Francis Sterling Crowell	U 1905	Mechanicville, N. Y.
Assistant Engineer, Barge Canal Office		
Frederick Van Dyke Cruser	G 1904	Barberton, Ohio
Chemist, Diamond Match Company		
Carleton Clarence Curtis	G 1903*†	New York City
Associate Professor of Botany, Columbia University		
John Greenleaf Curtis	G 1903*	New York City
Professor of Physiology, College of Physicians and Surgeons		
Joseph Louis Danziger	G 1903	Montreal, Canada
Chemist, Behrend Concentrators		
Bergen Davis	G 1903*	New York City
Assistant Professor of Physics, Columbia University		
William Schofield Day	G 1906*	New York City
Lecturer in Physics, Columbia University		
Bashford Dean	CF 1903*	Riverdale, N. Y.
Professor of Zoology, Columbia University		

Carl Henry Decker	U 1904 Mining Engineer	La Moille, Ill.
Arthur Isadore Dehuff	U 1907 Mining Engineer	Metaline, Wash.
Norman Arthur Deiser	U 1911 Civil Engineer	Brooklyn, N. Y.
Frederick S Dellenbaugh, Jr	U 1910 Electrical Engineer	East Orange, N. J.
Walter Taubert Derleth	U 1904 Civil Engineer	New York City
Ernest Hesthcote Dickenson	U 1911 Mining Engineer	
Charles William Dickson	G 1903* Lecturer in Chemistry, School of Mines	Kingston, Ont.
Norman Edward Ditman	G 1909 Physician	New York City
Francis Despard Dodge	A 1905 The Dodge and Olcott Company	Bayonne, N. J.
Richard Elwood Dodge	G 1905* Professor of Geography, Teachers College, Columbia	New York City University
Percy Williams Donovan	U 1905 Mining Engineer and Superintendent, E. J. Longyear	Brainerd, Minn. Company
Clarence Gibson Dresser	G 1906 Mining Engineer, Ray Consolidated Copper Company	Hayden, Ariz.
Gano Sellick Dunn	A 1905*† President, American Institute of Electrical Engineers	New York City
Charles Eustace Dwyer	U 1911 Mining Engineer	Mullan, Idaho
Walter Hollis Eddy	G 1908 Head of Biology, New York High School of Commerce	New York City
Henry Drew Egbert	U 1910 Engineer, Guarantee Construction Company	New York City
Richard Hermann Ernest	U 1905 Engineer, Round Mountain Mining Company	Round Mountain, Nev.
Alfred Winter Evans	U 1906 Mining Engineer	Durban, Natal
Francis Gordon Fabian	U 1907 Real Estate	Cincinnati, Ohio
Kaufman George Falk	G 1907* Chemist, Harriman Research Laboratory, Roosevelt Hospital	New York City
Milton J Falk	G 1905 Chemist, G. Falk and Brother	New York City
Myron Samuel Falk	G 1903 Civil Engineer	New York City
Livingston Farrand	CF 1903*† Professor of Anthropology, Columbia University	New York City

Herman Waldo Farwell	G 1907*	New York City
Instructor in Physics, Columbia University		
Albert Hill Fay	G 1906	Pittsburgh, Pa.
Mining Engineer, United States Bureau of Mines		
Clarence Norman Fenner	G 1908	Washington, D. C.
Investigator, Geophysical Laboratory, Carnegie Institution		
William C Ferguson	A 1905	Flushing, N. Y.
Chemist		
Albert Fiedler	U 1908	Brooklyn, N. Y.
Chemical Engineer		
James Kip Finch	U 1906	New York City
Instructor in Civil Engineering, Columbia University		
George Irving Finlay	G 1903*	Colorado Springs, Col.
Professor of Geology, Colorado College		
Harry Linn Fisher	G 1910	New York City
Instructor in Chemistry, Cornell University Medical School		
William Benjamin Fite	F 1911 (Cornell G 1899)	New York City
Professor of Mathematics, Columbia University		
Arthur Bansford Fletcher	U 1911	Vancouver, B. C.
Mining Engineer, Canadian Pacific Railroad		
Mico Militiades Achilles Fontrier	G 1906	Smyrna, Asia Minor
Francis S Foote, Jr	G 1908 (Illinois F 1910)	Urbana, Ill.
Associate in Railway Engineering, University of Illinois		
William Horatio Freedman	G 1904*	Brooklyn, N. Y.
Head of Department of Applied Electricity, Pratt Institute		
Mortimer Freund	U 1906	New York City
Electrical Engineer, Percival R. Moses		
Conrad Edwin Frudden	U 1910	
Mechanical Engineer		
Charles Herman Fulton	A 1905 (Case F 1911)	Cleveland, Ohio
Professor of Metallurgy, Case School of Applied Science		
Charles Rockwell Gardiner	U 1907	Muscantine, Ia.
Manager, Amsterdam Button Company		
Frazer Walker Gay	U 1906	Newark, N. J.
Electrical Engineer, Crocker-Wheeler Electric Company		
George Augustus Geiger	G 1910	West Orange, N. J.
Chemist		
William John Gies	CF 1903*	New York City
Professor of Biological Chemistry, Columbia University		
Frederick Edward Gibert, Jr	U 1906	New York City
Architectural Engineer		
Charles Buxton Going	A 1905†	New York City
Editor of Engineering Magazine		
Abraham Jules Goldfarb	G 1907*	New York City
Instructor in Zoology, College of City of New York		
Hubert Dana Goodale	G 1905	Cold Spring Harbor, L. I., N. Y.
Poultry Investigator, Carnegie Institution		

Clarence Everett Gordon	G 1905*	Amherst, Mass.
Professor of Geology and Zoology, Massachusetts Agricultural College		
Ross Aiken Gortner	G 1909	Cold Spring Harbor, L. I., N. Y.
Chemist, Carnegie Experiment Station		
Amadeus William Grabau	G 1903*†	New York City
Professor of Paleontology, Columbia University		
Louis Pope Gratacap	A 1905*†	New York City
Curator, American Museum of Natural History		
Russell DeCosta Greene	U 1906	New York City
Assistant Engineer, Rapid Transit Commission		
Kenneth Sproat Guiterman	U 1911	Denver, Col.
William Hallock	CF 1903*†	New York City
Professor of Physics, Columbia University		
Zachariah Power Halpin	U 1907	New York City
Electrical Engineer		
Chris Andrew Hartnagel	G 1905*	Albany, N. Y.
Geologist, New York State Education Department		
Philip Bovier Hawk	G 1903* (Illinois F 1907)	Urbana, Ill.
Professor of Physiological Chemistry, University of Illinois		
Herbert Edwin Hawkes	F 1911	New York City
Professor of Mathematics, Columbia University		
John Hawkesworth	U 1904	New York City
Civil Engineer		
Harold Melvin Hays	G 1903	New York City
Physician and Surgeon		
Tracy Elliott Hazen	G 1905*	New York City
Assistant Professor of Botany, Barnard College, Columbia University		
Vivian Allen Charles Henmon	G 1907* (Colorado F 1906)	Madison, Wis.
Associate Professor of Education, University of Wisconsin		
Michael Heidenberger	G 1910	New York City
Chemist		
Edward Hess	U 1906	New York City
Metallurgist		
Henry Harold Higbie	G 1905* (Michigan F 1905)	Ann Arbor, Mich.
Assistant Professor of Electrical Engineering, University of Michigan		
Eric Berkeley Higgins	G 1908	Liverpool, England
Chemist		
Alfred Hoffman	G 1905*	Brooklyn, N. Y.
Chemist		
Charles Arthur Hollick	A 1905*	New York City
Curator of Paleo-Botany, New York Botanical Garden, Bronx Park		
Henry Marion Howe	G 1903*†	New York City
Professor of Metallurgy, Columbia University		
Marshall Avery Howe	G 1904*†	New York City
Curator, New York Botanical Garden, Bronx Park		
Frederick Learoyd Humphrey	U 1905	Mesa, Ariz.
Engineer, United States Reclaim Survey		

George Sumner Huntington	G 1903*	New York City
Professor of Anatomy, College of Physicians and Surgeons		
Frederick Remsen Hutton	G 1903*†	New York City
Emeritus Professor of Mechanical Engineering, Columbia University		
Magnus Colbjarn Ihseng	A 1905*†	Blairsville, Pa.
President, Blairsville College		
John Duer Irving	A 1904*	New Haven, Conn.
Professor of Geology, Yale University		
Royal Preston Jarvis	G 1907	Knoxville, Tenn.
Professor of Mining, University of Tennessee		
Walter Proctor Jenney	A 1905*	Washington, D. C.
Consulting Geologist		
Arthur Michael Johnson	U 1906	Franklin Furnace, N. J.
Mining Engineer, New Jersey Zinc Company		
Douglas Wilson Johnson	G 1903*	Cambridge, Mass.
Assistant Professor of Physiography, Harvard University		
Herman Norton Johnson	U 1906	Binghamton, N. Y.
Mining Engineer		
Edward Crosby Jones	U 1908	Troy, N. Y.
Assistant in Electrical Engineering and Physics, Rensselaer Polytechnic		
Lewis Meredith Jones	U 1908	Cleveland, Ohio
Mining Engineer		
Farel Louis Jouard	G 1908	New York City
Professor of Chemistry, New York Homoeopathic Medical College		
Cavalier Hargrave Joüet	G 1903*	New York City
Instructor in Chemistry, Columbia University		
Edward Knight Judd	F 1911	New York City
Instructor in Mining, Columbia University		
Alexis Anastay Julien	G 1903*	South Harwich, Mass.
Retired		
Albert Carl Kaestner	U 1910	New York City
Civil Engineer		
Frederick Rowe Keller	U 1911	New York City
Assistant in Electrical Engineering, Columbia University		
William Erskine Kellicott	G 1903*	Baltimore, Md.
Professor of Biology, Goucher College		
Lee Olds Kellogg	U 1906	Temascaltepec, Est., Mexico
Mining Engineer, American Kincon Mining Company		
James Furman Kemp	CF 1903*† (Cornell F 1887)	New York City
Professor of Geology, Columbia University		
Burton Warren Kendall	G 1909	New York City
Instructor in Physics, Columbia University		
Edward Calvin Kendall	U 1908	New York City
Research Chemist, St Luke's Hospital		
Edward Frank Kern	G 1905*	New York City
Assistant Professor of Metallurgy, Columbia University		

Joseph Waldo Kingsbury	G 1907 Mining Engineer	San Francisco, Cal.
Richard Ellard Kinsman	U 1911 Electrical Engineer, American Telegraph and Telephone Company	New York City
Edwin Kirk	U 1907* Assistant Geologist, United States Geological Survey	Washington, D. C.
William Klaber	G 1907 Chemist	New York City
Luther Lycurgus Kirtley	U 1908 Mining Engineer	Salt Lake City, Utah
John Edward Klein	U 1909 Electrical Engineer	Montreal, Canada
Cyril Workman Knight	G 1905 Geologist, Ontario Geological Survey	Toronto, Canada
Herbert S Kohlberg	U 1909 Mining Engineer	El Paso, Tex.
Henry Kraemer	A 1905*† Professor of Botany, Philadelphia College of Pharmacy	Philadelphia, Pa.
Arthur Kraus	U 1908 Civil Engineer	New York City
Otto Kress	U 1906 Instructor in Chemistry, Columbia University	New York City
Alfred Hemmer Kroff	G 1908 Chemist	New York City
Frederick Kruse, Jr	U 1907 Mining Engineer	New York City
Frederick Thurlow Lacy	U 1911 Mechanical Engineer, American Locomotive Company	Schenectady, N. Y.
Maurice Allison Lamme	G 1906 Instructor in Mineralogy, Columbia University	New York City
George Alfred Lawrence	CG 1903 Adjunct Professor, New York Post-Graduate Medical School	New York City
Frederic Schiller Lee	G 1903*† Professor of Physiology, College of Physicians and Surgeons	New York City
Montrose Lucius Lee	U 1910 Mining Engineer and Geologist	Montevideo, Uruguay
Ferdinand Leiser, Jr	U 1911 Civil Engineer	Brooklyn, N. Y.
Albert Buell Lewis	G 1904 Assistant in Anthropology, Field Columbian Museum	Chicago, Ill.
J Chester Alan Arthur Lichtenberg	G 1907 Electrical Engineer, General Electric Company	Schenectady, N. Y.
Francis Church Lincoln	G 1906* (Illinois F 1911) Associate in Mining Engineering, University of Illinois	Urbana, Ill.
Francis Ernst Lloyd	G 1907*† Professor of Botany, Alabama Polytechnic Institute	Auburn, Ala.

Karl Ernest Lloyd	U 1908 Mining Engineer	Elyria, Ohio
Grover Cleveland Loening	U 1911 Civil Engineer	New York City
Preston Erie Locke	U 1909 Mining Engineer, Ray Consolidated Copper Company,	Ray, Ariz.
Alfred Pierce Lothrop	G 1908 Instructor in Biological Chemistry, Columbia University	New York City
Earle Brink Lovell	CF 1903 (Cornell U 1891) Professor of Civil Engineering, Columbia University	New York City
Daniel Ralph Lucas	U 1907 Physician	New York City
Charles Eduard Lucke	G 1906 Professor of Mechanical Engineering, Columbia University	New York City
Lea McIlvalne Luquer	G 1903* Assistant Professor of Mineralogy, Columbia University	New York City
Henry Hudson Edwin Lynn	U 1907 Civil Engineer	New York City
George John Lyon	U 1904 Assistant Professor of Civil Engineering, Union College	Schenectady, N. Y.
Alfred Sidney Malcomson	U 1905 Civil Engineer, Smith and Malcomson	Freeport, N. Y.
Ralph Marble	U 1905 Mining Engineer	Duluth, Minn.
Henry Howard Marvin	G 1911 Instructor in Physics, Massachusetts Institute of Technology	Boston, Mass.
John Alexander Mathews	A 1905*† Managing Director, Halcomb Steel Company	Syracuse, N. Y.
William Diller Matthew	A 1905*† Palaeontologist, American Museum of Natural History	New York City
Clarence Earl May	G 1908 Assistant Professor of Chemistry, Indiana University	Bloomington, Ind.
Almer McDuffie McAfee	G 1911 Chemist, The Texas Company	Bayonne, N. J.
Robert Earll McConnell	U 1910 Mining Engineer	Virginia City, Mont.
James Howard McGregor	CF 1903* (Ohio A 1911) Assistant Professor of Zoology, Columbia University	New York City
Charles Searing Mead	G 1905 Instructor in Zoology, Northwestern University	Evanston, Ill.
Harry Levi Mead	U 1905 Engineer	New York City
Albert Mendelsohn	U 1911 Mining Engineer, Superior Copper Company	Houghton, Mich.
Arthur B Menefee	U 1910 Assistant Superintendent, Mt. Hope Mines	Wharton, N. J.

Frederick James Hamilton Merrill	A 1905*† Consulting Geologist	Nogales, Ariz.
Marlon Hawthorne Merriss	U 1910 Assistant Superintendent, American Smelting and Refining Company	Perth Amboy, N. J.
Arthur J Mettler	G 1906 Chief Chemist, Fibre Conduit Company	Orangeburgh, N. J.
Floyd Jay Metzger	G 1904 Instructor in Chemistry, Columbia University	New York City
Arnold William Meyer	G 1908 (Deceased 1910)	
Louis Guy Michael	G 1904	Kishinev, Russia
Benjamin Michailovsky	U 1908 Physician	New York City
Edmund Howd Miller	G 1903*† (Deceased 1906)	
Kenneth Ballard Millett	U 1907 Mechanical Engineer	Newburgh, N. Y.
James Burt Miner	G 1903* (Illinois G 1903) Assistant Professor of Psychology, University of Minnesota	Minneapolis, Minn.
Clark Godell Mitchell	U 1911 (Yale 1909) Engineer, Britannia Mining and Smelting Company	Britannia Beach, B. C.
Samuel Alfred Mitchell	F 1907* Assistant Professor of Astronomy, Columbia University	New York City
Fred Howard Moffit	G 1903 Geologist, United States Geological Survey	Washington, D. C.
John Harold Morecroft, Jr	F 1910* (Syracuse G 1907) Assistant Professor of Electrical Engineering, Columbia University	New York City
John Livingston Rutgers Morgan	G 1903*† Professor of Physical Chemistry, Columbia University	New York City
Charles Virgin Morrill	G 1906 Instructor in Anatomy, New York University Medical College	New York City
Frederick Kuhne Morris	G 1909 Teacher, New York City Schools	New York City
Charles Edward Morrison	G 1905 Civil Engineer	New York City
Leighton B Morse	G 1906 Instructor in Physics, Columbia University	New York City
Max Morse	G 1905 Assistant in Zoology, College of the City of New York	New York City
Alfred Joseph Moses	CF 1903*† Professor of Mineralogy, Columbia University	New York City
Wilford Barber Mucklow	U 1909 Mining Engineer	McGill, Nev.
Henry Smith Munroe	G 1903† Professor of Mining, Columbia University	New York City
Benjamin Lindley Murray	G 1905 Chemist, Merck and Company	Rahway, N. J.

William Stockton Nelms	G 1909	New York City
Assistant in Physics, Columbia University		
John Maurice Nelson	G 1907	New York City
Tutor in Chemistry, Columbia University		
Andrew White Newberry	U 1908	Sandusky, Ohio
Metallurgist, Portland Cement Company		
William Newell	U 1907	Montclair, N. J.
Mechanical Engineer		
David Hale Newland	A 1905*	Albany, N. Y.
Assistant State Geologist, State Department of Education		
Edmund Newton	U 1911	Arkville, N. Y.
Mining Engineer		
Ernest Fox Nichols	F 1904*† (Cornell G 1902)	Hanover, N. H.
President, Dartmouth College		
Henry William Nieman	U 1911	Schuyler, Neb.
Mining Engineer		
Leonard D Norsworthy	U 1909	Grinnell, Ia.
Assistant Professor of Mathematics, Grinnell College		
Malcom Lindsay O'Neale	U 1910	Coal City, Ala.
Superintendent of Mines, Seaboard Coal and Coke Company		
Henry Fairfield Osborn	CF 1903*†	New York City
Da Costa Professor of Zoology, Columbia University		
Raymond Carroll Osburn	G 1903*	New York City
Assistant Professor of Zoology, Columbia University		
Leonard Flagge Otten	U 1907	New Rochelle, N. Y.
Mechanical Engineer		
Reuben Ottenberg	U 1905	New York City
Assistant Physician in Microscopy, Mt. Sinai Hospital		
John Bagot Overbeck	U 1907	Cape Town, South Africa
Mining Engineer		
Frederick James Pack	G 1905	Salt Lake City, Utah
Professor of Geology, University of Utah		
Herschel Clifford Parker	G 1903*†	New York City
Professor of Physics, Columbia University		
Harry Lilienthal Parr	F 1908	New York City
Instructor in Mechanical Engineering, Columbia University		
William Barclay Parsons	A 1905*†	New York City
Consulting Engineer		
Frederick Malling Pedersen	A 1905*	New York City
Assistant Professor of Mathematics, College of the City of New York		
George Braxton Pegram	G 1903*	New York City
Assistant Professor of Physics, Columbia University		
William Richmond Peters	U 1911	
(Deceased 1911)		
Robert Early Phelan	U 1910	
Mining Engineer		

John Bonsall Porter	A 1905*	Montreal, Canada
Professor of Mining, McGill University		
Edward R Posner	G 1905	Des Moines, Ia.
Professor of Medicine, Drake University		
Frederick James Powell	U 1905	New York City
Lawyer, Mining Engineer		
Herman A Prosser	A 1905	New York City
Metallurgist, United States Smelting Company		
Michael Idvorsky Pupin	G 1904*†	New York City
Professor of Electro-Mechanics, Columbia University		
Thomas Thornton Read	G 1905*	San Francisco, Cal.
Associate Editor, Mining and Scientific Press		
John Krom Rees	CF 1903*	
(Deceased 1907)		
Raemer Rex Renshaw	G 1907*	Middletown, Conn.
Instructor in Chemistry, Wesleyan University		
Leandro Jose Ricarda	U 1904	Comaguey, Cuba
Civil Engineer, Francisca Sugar Company		
Alfred Newton Richards	G 1903* (Yale G 1898)	Philadelphia, Pa.
Professor of Pharmacology, University of Pennsylvania		
Herbert Maule Richards	G 1903*	New York City
Professor of Botany, Columbia University		
Henry Alsop Riley	U 1910	New York City
Wells Littlefield Riley	U 1911	New York City
Mechanical Engineer, Columbia University		
Ambrose Ely Ring	U 1905	Flat River, Mo.
Chief Engineer, Federal Lead Company		
John Thomas Roberts, Jr	U 1907	Buffalo, N. Y.
Manager, Wanakah Mining Company		
Charles Budd Robinson	G 1906*	Manila, P. I.
Botanist, Bureau of Science		..
Austin Flint Rogers	CF 1903*	Palo Alto, Cal.
Associate Professor of Mineralogy, Leland Stanford Junior University		
Gaillard Sherburne Rogers	G 1909	Washington, D. C.
Junior Geologist, United States Geological Survey		
Jacob Rosenbloom	G 1910	New York City
Associate in Chemistry, College of Physicians and Surgeons		
Walter Louis Rothschild	U 1907	New York City
Civil Engineer		
John Joseph Ryan	U 1909	New York City
Electrical Engineer		
William Salant	G 1905*	Washington, D. C.
Pharmacologist, United States Department of Agriculture		
William Jay Schieffelin	A 1905*†	New York City
Manufacturing Chemist		
Walter Irvine Schlichter	F 1911	New York City
Professor of Electrical Engineering, Columbia University		

Hermann von Wechlinger Schulte	F 1910	New York City
Assistant Professor of Anatomy, College of Physicians and Surgeons		
David Burnet Scott	U 1911	Miami, Ariz.
Mining Engineer, Miami Copper Company		
Harvey Ambrose Seil	G 1906	Perth Amboy, N. J.
Chemist		
George Francis Sever	G 1903†	New York City
Consulting Electrical Engineer		
Willard Lesly Severinghaus	G 1909	New York City
Instructor in Physics, Columbia University		
Frank Houghton Sewall	U 1906	New York City
Civil Engineer, Brooklyn Union Gas Company		
Charles Harmonas Shamel	G 1905	Seattle, Wash.
Lawyer		
Conway Wing Shearer	U 1910	East Pittsburgh, Pa.
Engineer, Westinghouse Electric and Manufacturing Company		
Henry Clapp Sherman	G 1903*†	New York City
Professor of Chemistry, Columbia University		
Hervey Woodburn Shimer	G 1903*	Boston, Mass.
Assistant Professor of Paleontology, Massachusetts Institute of Technology		
J Edwin Sinclair	G 1908	Newark, N. J.
Instructor in Physics and Chemistry, Barringer High School		
Marco Carmelich Smith, Jr	U 1908	Brooklyn, N. Y.
Civil Engineer		
Charles Henry Smyth, Jr	A 1905*†	Princeton, N. J.
Professor of Geology, Princeton University		
George Albert Soper	G 1906	New York City
Metropolitan Sewage Commission		
Charles B Spencer	U 1910	New York City
Civil Engineer		
Edward Anthony Spitzka	G 1905*†	Philadelphia, Pa.
Physician and Professor of Anatomy, Jefferson Medical College		
Matthew Steele	G 1908 (Missouri F 1910)	Columbia, Mo.
Assistant Professor of Dairy Husbandry, University of Missouri		
Reston Stevenson	G 1908	New York City
Instructor in Chemistry, College of the City of New York		
Charles Arthur Stewart	G 1907*	Moscow, Ida.
Associate Professor of Geology, University of Idaho		
Ralph Randles Stewart	U 1911	Rawal Pindi, India
Professor of Biology, Gordon College		
William Warren Stifter	G 1911 (Illinois G 1910)	New York City
Assistant in Physics, Columbia University		
Joseph Whitla Stinson	U 1907	New York City
Architect		
Charles Rupert Stockard	G 1905*	New York City
Professor of Anatomy, Cornell Medical School		

George Cameron Stone	A 1905	New York City
Metallurgist, New Jersey Zinc Company		
Bradley Stoughton	G 1903*	New York City
Consulting Metallurgical Engineer		
Oliver Smith Strong	G 1903*	New York City
Instructor in Anatomy, College of Physicians and Surgeons		
Joseph Struthers	A 1905	New York City
Assistant Secretary, American Institute of Mining Engineers		
Walter Stanborough Sutton	CF 1903	Rosedale, Kan.
Associate Professor of Surgery, University of Kansas Medical School		
Charles C Swartz	G 1903 (Yale 1900)	South Norwalk, Conn.
Consulting Mining Engineer		
Isadore Tanz	U 1906	New York City
Engineer, New York Telephone Company		
Peter Louis Tea	U 1910	New York City
Electrical Engineer		
Harold Allen Thomas	U 1908	Terre Haute, Ind.
Instructor in Civil Engineering, Rose Polytechnic Institute		
John Fairfield Thompson	G 1904	Bayonne, N. J.
Superintendent, Monel Metal Manufacturing Company		
Edgar George Thomasen	G 1910	New York City
Chemist, Columbia University		
Edward Lee Thorndike	F 1911	New York City
Professor of Educational Psychology, Columbia University		
Edward Day Thurston, Jr	G 1908	New York City
Instructor in Mechanical Engineering, Columbia University		
Roger Wolcott Toll	U 1906	Denver, Col.
Assistant Engineer, Denver City Tramway Company		
Carl Tombo	U 1905	New York City
Civil Engineer		
Fitzhugh Townsend	G 1903	
(Deceased 1906)		
Frank Weiss Traphagen	A 1905*†	Golden, Col.
Professor of Metallurgy, Colorado School of Mines		
Amasa Trowbridge	G 1904	Hartford, Conn.
Manager, Veeder Manufacturing Company		
Charles Christopher Trowbridge	G 1903*	New York City
Instructor in Physics, Columbia University		
Samuel Auchmuty Tucker	G 1907*	New York City
Adjunct Professor of Electro-chemistry, Columbia University		
Frank Leo Tufts	G 1903*	
(Deceased 1909)		
Lucien Marcus Underwood	CF 1903*	
(Deceased 1907)		
William Erastus Upham	G 1906	Ocean Park, Cal.
Mining Engineer		

Lillian Lee Vaughan	U 1911	West Raleigh, N. C.
Instructor, North Carolina College of Agriculture and Mechanic Arts		
Harold Edwin Vehslage	U 1909	New York City
Assistant Mechanical Engineer, American Cotton Oil Company		
Trifon von Schrenk	U 1909	Kansas City, Mo.
Secretary, Arkansas Bridge Company		
Herman T Vulte	G 1905	New York City
Adjunct Professor of Chemistry, Teachers College, Columbia University		
Arthur L Walker	F 1909	New York City
Professor of Metallurgy, Columbia University		
Chung Yu Wang	G 1904	London, England
Mining Engineer		
Harold Worthington Webb	G 1906	New York City
Instructor in Physics, Columbia University		
Walter Harvey Weed	A 1908*†	New York City
Consulting Mining Geologist, Weed and Probert		
Frederick Seymour Weingarten	U 1907	New York City
Physician		
William Henry Welker	G 1905*	Philadelphia, Pa.
Demonstrator in Physiological Chemistry, University of Pennsylvania		
Ching Yu Wen	G 1911	Canton, China
Metallurgist		
George Vincent Wendell	F 1911	New York City
Professor of Physics, Columbia University		
Harry Wessler	U 1908	New York City
Physician		
Doris William Whipple	U 1908	New York City
Chemist		
Herbert Perey Whitlock	G 1904*	Albany, N. Y.
Mineralogist, New York State Museum		
Milton C Whitaker	F 1911	New York City
Professor of Industrial Chemistry, Columbia University		
Ferdinand Gerhard Wiechmann	A 1905*†	New York City
Consulting Chemical Engineer		
Ira Abraham Williams	G 1904*	Ames, Ia.
Associate Professor of Geology, Iowa State College		
Jacov Paul Jones Williams	F 1911	New York City
Assistant Professor of Civil Engineering, Columbia University		
Roland Hugh Williams	G 1905	New York City
Head of Science, Horace Mann School		
George Williamson	U 1908	East Orange, N. J.
Electrical Engineer		
Bailey Willis	A 1905*†	Washington, D. C.
Geologist, United States Geological Survey		
Albert Potter Wills	G 1906*	New York City
Professor of Physics, Columbia University		

Edmund Beecher Wilson	CF 1903*†	New York City
Professor of Zoology, Columbia University		
Herbert Michael Wilson	A 1905*†	Pittsburgh, Pa.
Civil Engineer and Geologist, United States Bureau of Mines		
J Howard Wilson	G 1906*	Castine, Me.
Geologist		
Philip Danforth Wilson	U 1911	Campas, Sonora, Mex.
Mining Engineer, Transvaal Copper Mining Company		
Louis Elsberg Wise	G 1910	New York City
Research Chemist		
Sidney Leo Wise	U 1911	New York City
School of Mines, Columbia University		
Leon Elmer Woodman	G 1906*	Orono, Me.
Assistant Professor of Physics, University of Maine		
Lorande Loss Woodruff	G 1903* (Yale F 1905)	New Haven, Conn.
Assistant Professor of Biology, Yale University		
Robert Simpson Woodward	CF 1903*†	Washington, D. C.
President, Carnegie Institution		
Charles Boyd Woticky	U 1908	New York City
Electrical Engineer		
Albert Allen Wright	A 1905	
(Deceased 1905)		
Charles Rapelyia Wyckoff, Jr	G 1903	Brooklyn, N. Y.
Civil Engineer		
Naohide Yatsu	G 1903*	Tokyo, Japan
Assistant Professor of Zoology, Tokyo Imperial University		
Harlan Harvey York	G 1906	Providence, R. I.
Assistant Professor of Botany, Brown University		
Charles Zeleny	G 1903* (Minnesota U 1898)	Urbana, Ill.
Associate Professor of Zoology, University of Illinois		
Frederick William Zons	G 1911	Long Island City, N. Y.
Chemist		

CHICAGO CHAPTER

UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS

Charter Dated May 1, 1903

Chapter Installed May 8, 1903

HISTORICAL SKETCH

Steps leading to the organization of a Chapter of the Sigma Xi Society at the University of Chicago were taken early in December, 1902, as a result of a conference of resident members of the Society among the faculty and students of the University. The petition, signed by thirty-seven of the faculty, was transmitted by the President of the Society, who was one of the signers of the petition, to the Chairman of the Council in December. Unanimously recommended by the Council, it received the assent of the chapters, and the charter, duly signed by the President and Secretary, was received early in May. The first meeting, called by Professor Williston, was held on May 8, with nearly all the signers present, and President Harper of the University, who was an invited guest.

After the objects and aims of the Society, with a brief history of it, had been given by Professor Williston, and a few words of encouragement had been spoken by President Harper, officers of the Chapter were elected. A committee, composed of Professors Williston, Weller and Wells, was appointed to draft the by-laws of the Chapter. The report of the committee on by-laws was presented at a called meeting on May 22, with a large attendance of members, and others eligible for membership. Those of the faculty eligible for membership were invited to become charter members, all of whom accepted the invitation. The Chapter began its active membership with more than one hundred members, and has since never fallen below that number. Meetings are held quarterly, at which, attendance varies between sixty and one hundred. At these meetings it has been the invariable custom, after the transaction of necessary business, to listen to an address by some speaker of note, after which a social entertainment has been provided. From the beginning it has been the policy of the Chapter to admit only graduate students to membership, students who have actually accomplished or are doing research work of merit.

S. W. W.

OFFICERS FOR 1911-12

President.....	JOHN MERLE COULTER
Vice-President.....	ALBERT PRESCOTT MATTHEWS
Recording Secretary.....	HERMAN IRVING SCHLESINGER
Corresponding Secretary.....	JULIUS STIEGLITZ
Treasurer.....	HERMAN IRVING SCHLESINGER
Councilor.....	JULIUS STIEGLITZ

MEMBERSHIP ROLL

Charles Christopher Adams	G 1908* (Illinois F 1908)	Urbana, Ill.
Associate in Animal Ecology, University of Illinois		
Charles Frederick Adams	G 1903* (Kansas G 1902)	Fayetteville, Ark.
Dean of Agriculture, University of Arkansas		
Henry Foster Adams	G 1908	Ann Arbor, Mich.
Instructor in Psychology, University of Michigan		
Walter Sydney Adams	CF 1903*	Pasadena, Cal.
Assistant Astronomer, Carnegie Institute		
Warder Clyde Allee	G 1911	Chicago, Ill.
Assistant in Zoology, University of Chicago		
Bennett Mills Allen	C 1903* (Wisconsin CF 1907)	Madison, Wis.
Instructor in Anatomy, University of Wisconsin		
George D Allen	G 1909	Chicago, Ill.
Jessie Blount Allen	G 1904 (Missouri F 1908)	Columbia, Mo.
(Mrs Werrett Wallace Charters)		
Harriett M Allyn	G 1909	Chicago, Ill.
Fellow in Zoology, University of Chicago		
Ernest Anderson	G 1908	Chicago, Ill.
Research Instructor in Chemistry, University of Chicago		
James Rowland Angell	CF 1903*†	Chicago, Ill.
Dean of Arts, Literature and Science, University of Chicago		
Charles Orval Appleman	G 1909	College Park, Md.
Plant Physiologist, Maryland Agricultural College		
Harold DeForest Arnold	G 1907	New York City
Research, Western Electric Company		
George Cromwell Ashman	G 1907	Peoria, Ill.
Professor of Chemistry, Bradley Polytechnic Institute		
Kenneth Noel Atkins	G 1911	Chicago, Ill.
Graduate Student, University of Chicago		
Wallace Walter Atwood	CF 1903*	Chicago, Ill.
Associate Professor of Geology, University of Chicago		
Winfred McKenzie Atwood	G 1911	Chicago, Ill.
Graduate Student, University of Chicago		
Samuel Henry Ayres	G 1906	Washington, D. C.
Bacteriologist, Dairy Division, U. S. Department of Agriculture		
Raymond Foss Bacon	G 1903	Pittsburgh, Pa.
Associate Director, Department Industrial Research, University of Pittsburgh		
J L Baer	G 1903	Kankakee, Ill.
Harry Foster Bain	F 1904*† (Illinois CF 1904)	San Francisco, Cal.
Editor, Mining and Scientific Press		
Charles Laurence Baker	G 1909	Berkeley, Cal.
Geologist		
Ernest Everett Ball	G 1905	Fresno, Cal.
John Raymond Barber	G 1904	Portland, Ore.
Captain, Medical Corps, U. S. Army		

George A. Barker	G 1905	Normal, Ill.
	Instructor in High School	
Lewellys Franklin Barker	CF 1903*†	Baltimore, Md.
Professor of Medicine, and Physician, Johns Hopkins University		
Edward Emerson Barnard	CF 1903*†	Williams Bay, Wis.
Professor of Astronomy, University of Chicago and Yerkes Observatory		
Edith Ethel Barnard	G 1905	Chicago, Ill.
Instructor in Chemistry, University of Chicago		
Charles Reid Barnes	CF 1903*	
(Deceased 1910)		
Harlan Harland Barrows	G 1903	Chicago, Ill.
Assistant Professor of Geology, University of Chicago		
George William Bartelmez	G 1908	Chicago, Ill.
Instructor in Anatomy, University of Chicago		
Edson Sunderland Bastin	G 1903	Washington, D. C.
Geologist, U. S. Geological Survey		
William Jacob Baumgartner	G 1903	Lawrence, Kan.
Assistant Professor of Zoology, University of Kansas		
Frank Christian Becht	G 1907 (Illinois F 1910)	Urbana, Ill.
Assistant Professor of Physiology, University of Illinois		
William Porter Beck	G 1904	Pittsburgh, Pa.
Secretary and Treasurer, Frankstown Realty Company		
James Edgar Bell	G 1910 (Illinois G 1911)	Urbana, Ill.
Assistant in Chemistry, University of Illinois		
Robert Russell Bensley	CF 1903*	Chicago, Ill.
Professor of Anatomy, University of Chicago		
Robert Louis Benson	G 1907	Chicago, Ill.
Student, Rush Medical College		
Walter VanDyke Bingham	G 1906	Hanover, N. H.
Assistant Professor of Psychology, Dartmouth College		
George David Birkhoff	G 1907	Princeton, N. J.
Professor of Mathematics, Princeton University		
Edwin Sherwood Bishop	G 1909	Chicago, Ill.
Instructor in Physics, School of Education, University of Chicago		
Frederic Lendall Bishop	G 1904	Pittsburgh, Pa.
Dean of Engineering, University of Pittsburgh		
Eliot Blackwelder	CG 1903 (Wisconsin CF 1907)	Madison, Wis.
Associate Professor of Geology, University of Wisconsin		
Charles Scofield Blair	G 1906 (Northwestern G 1906)	Washington, D. C.
Assistant Geologist, U. S. Geological Survey		
William Richards Blair	G 1904	Bluemont, Va.
Director of Observatory, U. S. Weather Bureau		
Gilbert Ames Bliss	CF 1903* (Minnesota F 1901)	Chicago, Ill.
Associate Professor of Mathematics, University of Chicago		
Guy L Bliss	G 1907	Three Rivers, Mich.
Physician		

- Mary Blount G 1906 Chicago, Ill.
Instructor in Zoology, University of Chicago High School
- Katherine Blunt G 1906 Poughkeepsie, N. Y.
Instructor in Chemistry, Vassar College
- Oskar Bolza CF 1903* Freiburg, Germany
Honorary Professor of Mathematics, University of Freiburg
- Robert Lacey Borger G 1904 (Illinois F 1908) Urbana, Ill.
Associate in Mathematics, University of Illinois
- Thomas Harris Boughton G 1904 Lawrence, Kan.
Professor of Pathology, University of Kansas
- Melvin Amos Brannon G 1911 Grand Forks, N. D.
Professor of Biology, Dean of College of Arts, University of North Dakota
- Edwin Bayer Branson G 1904* (Kansas U 1903; Missouri F 1910)
Professor of Geology, Oberlin College [Oberlin, Ohio]
- Joseph Kumber Breitenbecker G 1911 Tucson, Ariz.
Research Assistant, Desert Laboratory
- Albert Dudley Brokaw G 1909 Chicago, Ill.
Assistant in Geology, University of Chicago
- Charles Brookover G 1907 Akron, Ohio
Professor of Natural Science, Buchtel College
- Clyde Brooks G 1908 Pittsburgh, Pa.
Assistant Professor of Physiology, University of Pittsburgh Medical School
- Orville Harry Brown G 1903* (Kansas G 1901) St. Louis, Mo.
Assistant Professor of Medicine, St. Louis University
- Roy H Brownlee G 1904 Pittsburgh, Pa.
Professor of Industrial Chemistry, University of Pittsburgh
- Daniel Buchanan G 1909 Kingston, Ontario
Assistant Professor of Mathematics, Queens University
- Herbert Earle Buchanan G 1908 Knoxville, Tenn.
Professor of Mathematics, University of Tennessee
- Robert Earle Buchanan G 1908 Ames, Ia.
Professor of Bacteriology, Iowa State College
- Thomas Buck G 1909 (Illinois F 1910) Berkeley, Cal.
Instructor in Mathematics, University of California
- Herbert Horace Bunzell G 1907 Washington, D. C.
Chemical Biologist, Bureau of Plant Industry
- William H Burger F 1911 Evanston, Ill.
Assistant Professor of Civil Engineering, Northwestern University
- Leonas Lancelot Burlingame G 1907 (Stanford F 1908) Palo Alto, Cal.
Assistant Professor of Botany, Leland Stanford-Junior University
- William Henry Bussey G 1903* (Minnesota F 1908) Minneapolis,
Assistant Professor of Mathematics, University of Minnesota [Minn.]
- Hortense Butler G 1905 Peterson, Ia.
- Joseph Stuart Caldwell G 1911 Chicago, Ill.
Fellow in Botany, University of Chicago

- Otis William Caldwell A 1903*† Chicago, Ill.
Associate Professor of Botany, University of Chicago
- R D Calkins G 1907 Mt. Pleasant, Mich.
Instructor in Geography, Central State Normal School
- Stephen Reid Capps, Jr G 1906 Washington, D. C.
Assistant Geologist, U. S. Geological Survey
- Anton Julius Carlson F 1904*† (Stanford G 1903) Chicago, Ill.
Associate Professor of Physiology, University of Chicago
- Joel Ernest Carman G 1904 Cincinnati, Ohio
Assistant Professor of Geology, University of Cincinnati
- Clifford Daniel Carpenter G 1911 Chicago, Ill.
Associate in Chemistry, University of Chicago High School
- Emma Perry Carr G 1908 South Hadley, Mass.
Associate Professor of Chemistry, Mt. Holyoke College
- Harvey Carr G 1904 Chicago, Ill.
Assistant Professor of Psychology, University of Chicago
- Alexis Carrel G 1906 New York City
Associate, Rockefeller Institute
- Matilde Castro G 1904 Rockford, Ill.
Professor of Philosophy, Rockford College
- Charles Joseph Chamberlain CF 1903*† Chicago, Ill.
Associate Professor of Botany, University of Chicago
- Ethel Chamberlin G 1909 East Orange, N. J.
(Mrs Ethel Chamberlin Porter)
- Rollin Thomas Chamberlin G 1904 Chicago, Ill.
Assistant Geologist, U. S. Geological Survey, University of Chicago
- Thomas Chrowder Chamberlin CF 1903*† Chicago, Ill.
Professor of Geology, University of Chicago
- Elbert E Chandler G 1905 Los Angeles, Cal.
Professor of Chemistry, Occidental College
- Edgar K Chapman G 1909 Crawfordsville, Ind.
Professor of Physics, Wabash College
- Grace Miriam Charles G 1909 Lawrence, Kan.
Instructor in Botany, University of Kansas
- Jessie Blount Allen Charters G 1904 (Missouri F 1908) Columbia, Mo.
(Mrs Werrett Wallace Charters)
- Floyd Earle Chidester G 1909 New Brunswick, N. J.
Instructor in Zoology, Rutgers College
- Charles Manning Child CF 1903* Chicago, Ill.
Associate Professor of Zoology, University of Chicago
- Mintin Asbury Chrysler G 1903 Orono, Me.
Professor of Biology, University of Maine
- Grace Lucretia Clapp G 1909 Chicago, Ill.
Fellow in Botany, University of Chicago
- Elbert Clark G 1909 Manila, P. I.
Associate Professor of Anatomy, University of the Philippines

- Joseph Franklin Clevenger G 1909 State College, Pa.
Instructor in Botany, Pennsylvania State College
- Oliver Charles Clifford G 1904 Chicago, Ill.
Assistant Professor of Engineering, Armour Institute of Technology
- J Harry Clo G 1908 New Orleans, La.
Assistant Professor of Physics, Tulane University
- Benson Ambrose Cohoe F 1903* Baltimore, Md.
Assistant Resident Physician, Johns Hopkins Hospital
- John S Collier G 1909 Champaign, Ill.
Expert in Rice Investigations
- William S Cooper G 1909 Chicago, Ill.
Fellow in Botany, University of Chicago
- Harry John Corper G 1909 Chicago, Ill.
Graduate Student, University of Chicago
- John Merle Coulter CF 1903*† Chicago, Ill.
Professor of Botany, University of Chicago
- Edmund Vincent Cowdry G 1911 Chicago, Ill.
Assistant in Anatomy, University of Chicago
- Henry Chandler Cowles CF 1903*† Chicago, Ill.
Assistant Professor of Botany, University of Chicago
- Wallace Craig G 1903 Orono, Me.
Professor of Philosophy, University of Maine
- William Crocker G 1905 Chicago, Ill.
Assistant Professor of Plant Physiology, University of Chicago
- Charles Benedict Davenport CF 1903*† Cold Spring Harbor, L. I., N. Y.
Head of Experimental Evolution, Carnegie Institution
- Benjamin Franklin Davis G 1909 Chicago, Ill.
Physician
- Bradley Moore Davis CF 1903*† Philadelphia, Pa.
Assistant Professor of Botany, University of Pennsylvania
- David John Davis G 1903*† Chicago, Ill.
Pathologist, St. Luke's Hospital
- Wilmer Esla Davis G 1909 Manhattan, Kan.
Assistant Professor of Botany, Kansas Agricultural College
- Dudley Watson Day G 1905 Rockford, Ill.
Physician, Supervisor of Hygiene, Public Schools
- Charles Elijah Decker U 1907 (Northwestern G 1908) Evanston, Ill.
Instructor in Physiography, Northwestern University
- Willey Denis G 1907 Boston, Mass.
Research Chemist, Harvard Medical School
- George F Dick F 1910 Chicago, Ill.
Instructor in Pathology, University of Chicago
- Emily Elisabeth Dobbin G 1903 St. Paul, Minn.
Teacher of Mathematics, Mechanic Arts High School
- Henry Herbert Donaldson CF 1903*† (Pennsylvania F 1906) Philadel-
Professor of Neurology, Wistar Institute [phia, Pa.]

Leonard G Donnelly	G 1911	Chicago, Ill.
Instructor, University of Chicago		
Sister Helen Angela Dorety	G 1908	Convent Station, N. J.
Teacher of Botany, College of St. Elizabeth		
George Amos Dorsey	F 1909	Chicago, Ill.
Associate Professor of Anthropology, University of Chicago		
Thomas Eaton Doubt	G 1903*	Chicago, Ill.
Associate Professor of Physics, Armour Institute of Technology		
June Etta Downey	G 1906	Laramie, Wyo.
Professor of Philosophy, University of Wyoming		
Fred Miller Drennan	G 1911	Chicago, Ill.
Assistant in Physiology, University of Chicago		
Elizabeth Hopkins Dunn	G 1903	Chicago, Ill.
Instructor in Anatomy, University of Chicago		
Sophia H Eckerson	G 1909	Chicago, Ill.
Laboratory Assistant in Plant Physiology, University of Chicago		
Oskar Eckstein	G 1905*	Peking, China
Director of Metallurgy, Imperial Chinese University		
Walter Crosby Ells	G 1911	Tacoma, Wash.
Professor of Mathematics, Whitworth College		
William Harvey Emmons	G 1903	Chicago, Ill.
Assistant Professor of Geology, University of Chicago		
Carl Robert Englund	G 1911	Chicago, Ill.
Graduate Student, University of Chicago		
Saul Epstein	CF 1903 (Colorado F 1906)	Boulder, Col.
Professor of Mathematics, University of Colorado		
William Lloyd Evans	G 1904 (Ohio G 1905)	Columbus, Ohio
Associate Professor of Chemistry, Ohio State University		
Oliver Cummings Farrington	C 1903*†	Chicago, Ill.
Curator of Geology, Field Museum of Natural History		
Nevin Melanchthon Fenneman	A 1904* (Wisconsin CF 1907)	Cincinnati, Ohio
Professor of Geology, University of Cincinnati		
Grace Maxwell Fernald	G 1906	Painesville, Ohio
Professor of Psychology, Lake Erie College		
Mabel Ruth Fernald	G 1908	Chicago, Ill.
Instructor in Psychology, Chicago Teachers College		
Vernon Clifford Finch	G 1911	Madison, Wis.
Assistant in Geology, University of Wisconsin		
Harvey Fletcher	G 1909	Chicago, Ill.
Fellow in Physics, University of Chicago		
Thomas Bruce Freas	F 1911	New York City
Assistant Professor and Curator, Havemeyer Laboratory		
Benjamin Ball Freud	A 1907	Chicago, Ill.
Instructor in Chemistry, Armour Institute of Technology		
Fannie Cornelia Frisbie	G 1903	Millburn, N. J.
(Mrs Frank Baldwin Jewett)		

- Edwin Brant Frost CF 1903*† Williams Bay, Wis.
Professor of Astronomy, University of Chicago, Director of Yerkes
Observatory
- George Damon Fuller G 1909 Chicago, Ill.
Instructor in Botany, University of Chicago
- Henry Gordon Gale CF 1903* Chicago, Ill.
Assistant Professor of Physics, University of Chicago
- Reginald Ruggles Gates G 1907 London, England
Botanical Laboratory, Imperial College of Science
- W Stanley Gibson F 1911 Evanston, Ill.
Assistant in Anatomy, Medical School, Northwestern University
- John W E Glattfeld G 1911 Chicago, Ill.
Graduate Student, University of Chicago
- Thomas Haigh Glenn G 1909 Chicago, Ill.
Instructor in Bacteriology, Northwestern University Medical School
- Emil Goetsch G 1907 Baltimore, Md.
Assistant Resident Surgeon, Johns Hopkins University Hospital
- Robert Harold Goheen G 1903 Chicago, Ill.
Rush Medical College
- Nellie Esther Goldthwaite G 1903 (Illinois F 1908) Urbana, Ill.
Assistant Professor of Household Science, University of Illinois
- Liborio Gomez G 1907 Manila, P. I
Pathologist, Bureau of Science, Philippine Government
- John Paul Goode F 1903*† Chicago, Ill.
Associate Professor of Geography, University of Chicago
- Herbert Marcus Goodman G 1907 Chicago, Ill.
Interne, Cook County Hospital
- Jesse More Greenman F 1907* Chicago, Ill.
Assistant Professor of Botany, University of Chicago
- James Richard Greir G 1907 Chicago, Ill.
Student, Rush Medical College
- Frank Loxley Griffin G 1904 Portland, Ore.
Professor of Mathematics, Reed College
- Laurence Emery Gurney G 1905 Moscow, Ida
Professor of Physics, University of Idaho
- Charles Claude Guthrie F 1904 Pittsburgh, Pa.
Professor of Physiology, University of Pittsburgh
- George Ellery Hale CF 1903*† Pasadena, Cal.
Director, Mount Wilson Solar Observatory
- Elliot Snell Hall G 1905 (Washington F 1907) Amherst, Mass.
Associate Professor of Chemistry, Amherst College
- Ernest M Hall G 1909 Chicago, Ill.
- William Ross Ham G 1907 State College, Pa.
Professor of Physics, State College of Pennsylvania
- Walter Wile Hamburger U 1904 Chicago, Ill.
Physician, Instructor in Medicine, Rush Medical College

- Francis Marion Hamilton G 1905 New York City
Professor of Psychology, New York Training School for Teachers
- William Draper Harkins G 1904* (Stanford A 1905) Missoula, Mont.
Professor of Chemistry, University of Montana
- Norman MacLeod Harris F 1903* Chicago, Ill
Assistant Professor of Bacteriology, University of Chicago
- Basil Coleman Hyatt Harvey F 1904* Chicago, Ill.
Associate Professor of Anatomy, University of Chicago
- Edward Maris Harvey G 1911 Williamsburg, Va.
Acting Professor Botany, William and Mary College
- LeRoy Harris Harvey G 1907 Kalamazoo, Mich.
Professor of Biology, State Normal School
- Heinrich Hasselbring U 1908*† (Cornell U 1899) Washnigton, D. C.
Bureau of Plant Industry, U. S. Department of Agriculture
- Shinkishi Hatai CF 1903* (Pennsylvania F 1908) Philadel-
Associate in Neurology, Wistar Institute [phia, Pa.
- Evelyn Sherwell Hayden G 1904 Marquette, Mich.
(Mrs Thomas Carlyle Hebb)
- Joseph William Hayes G 1906 Chicago, Ill.
Instructor in Psychology, University of Chicago
- Mary Holmes Stevens Hayes G 1905 Chicago, Ill.
- Evelyn Sherwell Hayden Hebb G 1904 Marquette, Mich.
(Mrs Thomas Carlyle Hebb)
- Thomas Carlyle Hebb G 1904 Marquette, Mich.
Professor of Physics and Chemistry, Northern State Normal
- Mary Hefferan G 1903* Grand Rapids, Mich
- Paul Gustav Heinemann G 1905 Chicago, Ill.
Associate in Bacteriology, University of Chicago
- Ludvig Hektoen CF 1903*† Chicago, Ill.
Professor of Pathology, University of Chicago
- Ansel Francis Hemenway G 1911 Chicago, Ill.
Graduate Student, University of Chicago
- Albert Edward Hennings G 1909 Chicago, Ill.
Teacher of Physics, University High School
- Gladys R Henry G 1911 Chicago, Ill.
Graduate Student, University of Chicago
- Charles Judson Herrick F 1907*† Chicago, Ill.
Professor of Neurology, University of Chicago
- John Charles Hessler CF 1903*† Decatur, Ill.
Professor of Chemistry, James Millikin University
- William Weldon Hickman G 1908 Assuit, Egypt
Professor of Chemistry, Assuit College
- Theophil Henry Hildebrandt G 1907 Ann Arbor, Mich.
Instructor in Mathematics, University of Michigan
- John Benjamin Hill G 1911 State College, Pa.
Instructor in Botany, Pennsylvania State College

Thomas McDougall Hills	G 1905 (Ohio F 1910)	Columbus, Ohio
Assistant Professor of Geology, Ohio State University		
Willis Stose Hilpert	G 1905	Chicago, Ill.
Chemist, American Medical Association		
Henry Hinds	G 1907	Chicago, Ill.
Fellow in Geology, University of Chicago		
Glenn Moody Hobbs	CF 1903*	Chicago, Ill.
Secretary, American School of Correspondence		
Allen David Hole	G 1905	Richmond, Ind.
Professor of Geology, Earlham College		
Harriet F Holmes	G 1911	Chicago, Ill.
Instructor in Pathological Technic, University of Chicago		
Willis Boit Holmes	CF 1903* (Illinois F 1907)	Fremont, Ohio
Superintendent, Ames Laboratories		
Clifton Durant Howe	G 1904	Toronto, Canada
Professor of Forestry, University of Toronto		
Walter Samuel Hunter	G 1911	Chicago, Ill.
Fellow in Psychology, University of Chicago		
Joseph Paxson Iddings	CF 1903*†	Washington, D. C.
Research, Smithsonian Institution		
Charles Emerson Ingbert	G 1903*	
(Deceased)		
Louis Ingold	G 1906	Columbia, Mo.
Instructor in Mathematics, University of Missouri		
Ernest Edward Irons	G 1901	Chicago, Ill.
Assistant Professor of Medicine, Rush Medical College		
Clara Jacobson	G 1910	Chicago, Ill.
Student, Rush Medical College		
Gerhard Hemming Jensen	G 1902 (Cornell U 1899)	Evanston, Ill.
Assistant Professor of Botany, Northwestern University		
Fannie Cornelia Frisbie Jewett	G 1903	Millburn, N. J.
(Mrs Frank Baldwin Jewett)		
Frank Baldwin Jewett	CG 1903	New York City
Engineer, American Telephone and Telegraph Company		
Albert Johannsen	G 1911	Chicago, Ill.
Assistant Professor of Petrology, University of Chicago		
Jacob M Johlín, Jr	F 1911	Ottawa, Ohio
Arden R Johnson	G 1909	Lafayette, Ind.
Instructor in Chemistry, DePauw University		
Oscar Perry Johnston	U 1901 (Cornell G 1903)	Reno, Nev.
Physician		
J Claude Jones	G 1907	Reno, Nev.
Assistant Professor of Geology, University of Nevada		
Lauder William Jones	CF 1903†	Cincinnati, Ohio
Professor of Chemistry, University of Cincinnati		
Wellington Downing Jones	G 1909	Argentina
Geological Survey		

Edwin Oakes Jordan	CF 1903*†	Chicago, Ill.
Professor of Bacteriology, University of Chicago		
Herbert Edwin Jordan	G 1904 (Kansas F 1911)	Lawrence, Kan.
Assistant Professor of Mathematics, University of Kansas		
William Henry Kadesch	G 1909	Cedar Falls, Ia.
Professor of Physics, Iowa State Teachers College		
Frank James Katz	G 1907	Washington, D. C.
Assistant Geologist, U. S. Geological Survey		
George Frederick Kay	G 1903† (Kansas G 1904; Iowa F 1908)	Iowa
Professor of Geology, University of Iowa		[City, Ia.
Nielsine Johanna Kildahl	G 1907	Chicago, Ill.
Student, University of Chicago		
Carl Kinsley	CF 1903*†	Chicago, Ill.
Associate Professor of Physics, University of Chicago		
Edwin Garvey Kirk	G 1903	Chicago, Ill.
Instructor in Anatomy, University of Chicago		
Sidney Klein	G 1903	Chicago, Ill.
Ansel Alphonso Knowlton	G 1907	Salt Lake City, Utah
Associate Professor of Physics, University of Utah		
Fred Conrad Koch	G 1909	Chicago, Ill.
Assistant in Chemistry, University of Chicago		
Waldemar Koch	CF 1903* (Missouri F 1905)	
(Deceased 1912)		
John Matthias Kuehne	G 1906	Austin, Tex.
Instructor in Physics, University of Texas		
Preston Kyes	F 1904*	Chicago, Ill.
Assistant Professor of Pathology, University of Chicago		
William Jesse Goad Land	G 1904	Chicago, Ill.
Instructor in Botany, University of Chicago		
Henry Higgins Lane	G 1904	Norman, Okla.
Professor of Zoology, University of Oklahoma		
Thomas Large	G 1903	Irving Falls, Ida.
Teacher and Rancher		
Kurt Laves	CF 1903*	Chicago, Ill.
Associate Professor of Astronomy, University of Chicago		
James Wright Lawrie	G 1905	Chicago, Ill.
Chief Chemist, Pullman Company		
Edwin Raymond LeCount	F 1904*	Chicago, Ill.
Professor of Pathology, Rush Medical College		
John Yiubong Lee	G 1909	Chicago, Ill.
Assistant in Physics, University of Chicago		
O J Lee	G 1910	Chicago, Ill.
Graduate Student, University of Chicago		
James Henry Lees	G 1905	Des Moines, Ia.
Assistant State Geologist, Iowa Geological Survey		
Ernest DeKoven Leffingwell	G 1904	Chicago, Ill.
Anglo-American Polar Expedition		

- Harvey Brace Lemon G 1909 Chicago, Ill.
Assistant in Physics, University of Chicago
- Nels Johann Lennes G 1906 (Brown F 1906) New York City
Instructor in Mathematics, Columbia University
- Heman Burr Leonard G 1904 Eugene, Ore.
Assistant Professor of Mathematics, University of Oregon
- Albert Buell Lewis G 1907 (Nebraska G 1900; Columbia A 1904)
Curator Field Museum of Natural History [Chicago, Ill.]
- Winford Lee Lewis G 1907 Evanston, Ill.
Instructor in Chemistry, Northwestern University
- Frank Rattray Lillie CF 1903*† Chicago, Ill.
Professor of Embryology, University of Chicago
- David Judson Lingle CF 1903*† Chicago, Ill.
Assistant Professor of Physiology, University of Chicago
- Burton Edward Livingston G 1904*† Baltimore, Md.
Professor of Plant Physiology, Johns Hopkins University
- Edwin Russell Lloyd G 1910 Washington, D. C.
Junior Geologist, U. S. Geological Survey
- William Raymond Longley G 1905 (Yale F 1907) New Haven, Conn.
Assistant Professor of Mathematics, Yale University
- Arno Benedict Luckhardt G 1907 Chicago, Ill.
Associate in Physiology, University of Chicago
- Arthur Constant Lunn C 1903* Chicago, Ill.
Assistant Professor of Mathematics, University of Chicago
- Herbert O Lussky G 1909 Chicago, Ill.
Assistant in Physiology, University of Chicago
- Frank Eugene Lutz G 1904† New York City
Curator, Invertebrate Zoology, American Museum of Natural History
- Carleton John Lynde G 1903 Ste-Anne de Bellevue, Quebec
Professor of Physics, The Macdonald College
- Elias Potter Lyon CF 1903*† St. Louis, Mo.
Dean of Medical School, St. Louis University
- Donald Francis MacDonald G 1908 Washington, D. C.
Geologist to Isthmian Canal Commission
- William Duncan MacMillan G 1906 Chicago, Ill.
Instructor in Mathematics, University of Chicago
- Harris Franklin MacNeish G 1903 New Haven, Conn.
Instructor in Mathematics, Yale University
- Charles Riborg Mann CF 1903*† Chicago, Ill.
Associate Professor of Physics, University of Chicago
- Florence Leland Manning G 1910 Kewanee, Ill.
Teacher of Biology High School
- Wilfred Hamilton Manwaring G 1905 New York City
Assistant in Pathology, Rockefeller Institute for Medical Research
- John N Martin G 1909 Bloomington, Ind.
Instructor in Botany, University of Indiana

Kirtley F Mather	G 1911	Fayetteville, Ark.
Instructor in Geology, University of Arkansas		
Albert Prescott Mathews	F 1905*†	Chicago, Ill.
Professor of Chemistry, University of Chicago		
Samuel Alexander Mathews	F 1906	Chicago, Ill.
Assistant Professor of Therapeutics, University of Chicago		
William Burnet McCallum	G 1904	Tucson, Ariz.
Professor of Botany, University of Arizona		
Florence A McCormick	G 1909	Chicago, Ill.
Assistant in Botany, University of Chicago		
Herbert Newby McCoy	CF 1903*†	Chicago, Ill.
Professor of Chemistry, University of Chicago		
Hugh McGuigan	G 1904	St. Louis, Mo.
Medical School, Washington University		
Paul Stillwell McKibben	G 1908	Chicago, Ill.
Associate in Anatomy, University of Chicago		
Franklin Chambers McLean	G 1908	Portland, Ore.
Professor of Medicine, University of Oregon		
Andrew Friedley McLeod	G 1905 (Wisconsin CF 1907)	Beloit, Wis.
Instructor in Chemistry, Beloit College		
Oscar E Meinzer	G 1906	Washington, D. C.
Assistant Geologist, U. S. Geological Survey		
Axel Leonard Melander	G 1904†	Pullman, Wash.
Professor of Entomology, State College of Washington		
Alan Wilfrid Cranbrook Menzies	F 1908	Chicago, Ill.
Assistant Professor of Chemistry, University of Chicago		
Albert Eli Merrill	G 1907	Cleveland, Ohio
Teacher		
Albert Abraham Michelson	CF 1903*†	Chicago, Ill.
Professor of Physics, University of Chicago		
Egbert J Miles	G 1906	Ithaca, N. Y.
Instructor in Mathematics, Cornell University		
Robert Andrews Millikan	F 1902*†	Chicago, Ill.
Professor of Physics, University of Chicago		
Charles Frederic Millspaugh	F 1903*†	Chicago, Ill.
Curator of Botany, Field Museum of Natural History		
James Herbert Mitchell	G 1909	Chicago, Ill.
Student, Rush Medical College		
Roy Lee Moodie	G 1905 (Kansas U 1905)	Lawrence, Kan.
Assistant Professor of Zoology, University of Kansas		
Howard Wilson Moody	G 1910	Chicago, Ill.
Fellow in Physics, University of Chicago		
Eliakim Hastings Moore	CF 1903*†	Chicago, Ill.
Professor of Mathematics, University of Chicago		
Elwood S Moore	G 1908	State College, Pa.
Professor of Geology, Pennsylvania State College		

Edward James Moore	G 1909	Oberlin, Ohio
Associate Professor of Physics, Oberlin College		
John Colin Moore	G 1909	Chicago, Ill.
Graduate Student in Paleontology, University of Chicago		
Everett C Moulton	U 1911	Chicago, Ill.
Student in Medical School, Northwestern University		
Forest Ray Moulton	CF 1903†	Chicago, Ill.
Professor of Astronomy, University of Chicago		
George William Myers	C 1903	Chicago, Ill.
Professor of Mathematics, University of Chicago		
Robert Kirkland Nabours	G 1910	Manhattan, Kan.
Assistant Professor of Zoology, Kansas State Agricultural College		
John Ulric Nef	CF 1903†	Chicago, Ill.
Professor of Chemistry, University of Chicago		
Charles Hugh Neilson	C 1903	St. Louis, Mo.
Director of Medical Department, St. Louis University		
Horatio Hackett Newman	G 1904	Chicago, Ill.
Associate Professor of Zoology, University of Chicago		
Roy Herbert Nicholl	G 1908	New York City
Professor Physiology and Biochemistry, Fordham University		
John Foote Norton	G 1909	Boston, Mass.
Instructor in Chemistry, Massachusetts Institute of Technology		
Joseph Antonius Nyberg	G 1911	Madison, Wis.
Instructor in Mathematics, University of Wisconsin		
Fred William Owens	G 1907 (Cornell F 1908; Kansas U 1901)	
Instructor in Mathematics, Cornell University [Ithaca, N. Y.]		
William Abbott Owens	G 1911	Duluth, Minn.
Professor of Psychology and Director of Training Department, Minnesota State Normal		
James Patterson	G 1906	Chicago, Ill.
Assistant in Anatomy, University of Chicago		
John Thomas Patterson	G 1906	Austin, Tex.
Adjunct Professor of Zoology, University of Texas		
Flemming Allen Clay Perrin	G 1911	Chicago, Ill.
Graduate Student, University of Chicago		
Harvey Andrew Peterson	G 1908	Normal, Ill.
Teacher, Illinois State Normal University		
Joseph Peterson	G 1907	Salt Lake City, Utah
Professor of Psychology, University of Utah		
Peter Powell Peterson	G 1908	Madison, Wis.
Research Assistant in Soil Analysis, University of Wisconsin		
Loren Clifford Petry	G 1911	Chicago, Ill.
Fellow in Botany, University of Chicago		
Roswell Talmadge Pettet	G 1911	Chicago, Ill.
Fellow in Pathology, University of Chicago		
Norma Etta Pfeiffer	G 1909	Chicago, Ill.
Fellow in Botany, University of Chicago		

Wanda May Pfeiffer	G 1907	Chicago, Ill.
Assistant in Botany, University of Chicago		
Frank Henry Pike	G 1906	New York City
Assistant Professor of Physiology, Columbia University		
Arthur Dunn Pitcher	G 1908 (Kansas U 1905)	Lawrence, Kan.
Instructor in Mathematics, University of Kansas		
Ethel Chamberlin Porter	G 1909	East Orange, N. J.
Paul David Potter	G 1911	Chicago, Ill.
Fellow in Chemistry, University of Chicago		
Loran O Potterf	G 1911	Chicago, Ill.
Graduate Student, University of Chicago		
Charles Albert Proctor	G 1903* (Missouri CF 1905)	Hanover, N. H.
Assistant Professor of Physics, Dartmouth College		
Brown Pusey	G 1905	Chicago, Ill.
Professor of Ophthalmology, Northwestern Medical School		
Stephen Walter Ranson	G 1903	Chicago, Ill.
Professor of Anatomy, Northwestern University Medical School		
Isaiah March Rapp	G 1910	Collegeville, Pa.
Assistant Professor of Physics, Ursinus College		
Guy A Reddick	G 1911	Crawfordsville, Ind.
William John Reed	G 1906	Washington, D. C.
Junior Geologist, U. S. Geological Survey		
Daniel Graisberry Revell	F 1904*	Edmonton, Alberta
Bacteriologist, Province of Alberta		
Florence Elia Richardson	G 1906	Des Moines, Ia.
Assistant Professor of Psychology, Drake University		
Howard Taylor Ricketts	F 1903*	
(Deceased 1910)		
Oscar Riddle	G 1907	Chicago, Ill.
Instructor in Therapeutics and Zoology, University of Chicago		
Elmer Samuel Riggs	G 1903 (Kansas G 1896)	Chicago, Ill.
Assistant Curator, Field Museum of Natural History		
George Willis Ritchey	C 1903†	Pasadena, Cal.
Astronomer, Mt. Wilson Solar Observatory		
José I del Rosario	G 1908	Manila, P. I.
Instructor in Chemistry, University of the Philippines		
Jessie M Speer Rose	G 1909	Milwaukee, Wis.
Marjory Scheel Rosing	G 1908	St. Louis, Mo.
Instructor in Botany, Central High School		
William Horace Ross	F 1905	Tucson, Ariz.
Assistant Chemist, Agricultural Experiment Station		
Gustav Ferdinand Ruediger	G 1904*	Grand Forks, N. D.
Professor of Bacteriology, University of North Dakota		
John Gaston Ryan	G 1907	Taintor, Ia.
Physician		

Clark Harold Sackett	G 1909	St. Louis, Mo.
Teacher of Botany, Soldan High School		
Rollin D Salisbury	CF 1903†	Chicago, Ill.
Dean of Ogden Graduate School of Science, University of Chicago		
Mildred Lenora Sanderson	G 1911	Chicago, Ill.
Fellow in Mathematics, University of Chicago		
Carl Ortwin Sauer	G 1909	Chicago, Ill.
Fellow in Geography, University of Chicago		
Hermann Irving Schlesinger	G 1904	Chicago, Ill.
Assistant Professor of Chemistry, University of Chicago		
George L Schnable	G 1911	Chicago, Ill.
Daniel Martin Schoemaker	G 1903	St. Louis, Mo.
Professor of Anatomy, School of Medicine, St. Louis University		
Alfred Reginald Schultz	G 1905	Washington, D. C.
Geologist, U. S. Geological Survey		
Arthur Richard Schweitzer	G 1907	Chicago, Ill.
John William Scott	G 1903	Manhattan, Kan.
Instructor in Zoology, State Agricultural College		
Lee Osborne Scott	G 1903	Rockford, Ill.
Physician		
Lester Whyland Sharp	G 1910	Chicago, Ill.
Graduate Student, University of Chicago		
Charles Houston Shattuck	G 1907	Moscow, Ida.
Professor of Botany, University of Idaho		
Eugene Wesley Shaw	G 1906	Washington, D. C.
Assistant Geologist, U. S. Geological Survey		
Ralph Edward Sheldon	G 1907* (Cornell U 1905)	Pittsburgh, Pa.
Assistant Professor of Anatomy, University of Pittsburgh		
Victor Ernest Shelford	G 1904	Chicago, Ill.
Instructor in Zoology, University of Chicago		
Marian Lydia Shorey	G 1906 (Brown G 1906)	Milwaukee, Wis.
Professor of Biology, Milwaukee-Downer College		
Charles Albert Shull	G 1905	Lexington, Ky.
Professor of Biology and Geology, Transylvania University		
George Harrison Shull	G 1904†	Cold Spring Harbor, L. I., N. Y.
Botanical Investigator, Carnegie Institution of Washington		
Etolle Bessie Simons	G 1905	Indianapolis, Ind.
Botanist, Manual Training School		
Burton Jesse Simpson	G 1904	Chicago, Ill.
Physician and Surgeon		
John George Sinclair	G 1911	Chicago, Ill.
Assistant in Zoology Laboratory, University of Chicago		
Mary Emily Sinclair	G 1904	Oberlin, Ohio
Associate Professor of Mathematics, Oberlin College		
Herbert Ellsworth Slaughter	F 1904	Chicago, Ill.
Associate Professor of Mathematics, University of Chicago		

- James Rollin Slonaker** CF 1903*† (Stanford F 1905) Palo Alto, Cal.
Assistant Professor of Physiology, Leland Stanford Junior University
- Maud Slye** G 1909 Chicago, Ill.
Fellow in Zoology, University of Chicago
- Alexander Smith** CF 1903*† New York City
Professor of Chemistry, Columbia University
- Frances Grace Smith** G 1903 Northampton, Mass.
Associate Professor of Botany, Smith College
- George Bertrand Smith** G 1903 Los Angeles, Cal.
Physician
- Warren DuPré Smith** G 1904 Manila, P. I.
Chief, Division of Mines, Bureau of Science
- Laetitia Morris Snow** A 1907 Wellesley, Mass.
Associate Professor of Botany, Wellesley College
- Jennie M Speer** G 1909 Milwaukee, Wis.
(Mrs Jennie M Speer Rose) Teacher of Botany, Milwaukee-Downer
Seminary
- Herman Augustus Spoehr** G 1908 Tucson, Ariz.
Chemist, Carnegie Institute, Desert Laboratory
- Anna Morse Starr** G 1909 Chicago, Ill.
Fellow in Botany, University of Chicago
- Frederick Starr** CF 1903*† Chicago, Ill.
Associate Professor of Ethnology, University of Chicago
- Clinton Raymond Stauffer** G 1906 (Ohio G 1906) Cleveland, Ohio
Associate Professor of Geology, Western Reserve University
- Thomas Calderwood Stephens** G 1904 Sioux City, Ia.
Professor of Biology, Morningside College
- Joseph Clark Stephenson** G 1909 Chicago, Ill.
Fellow in Zoology, University of Chicago
- George Neil Stewart** F 1904*† Cleveland, Ohio
Professor of Experimental Medicine, Western Reserve University
- Julius Stieglitz** CF 1903*† Chicago, Ill.
Professor of Chemistry, University of Chicago
- Arthur Grant Stillhamer** G 1904 Bloomington, Ill.
Mechanical and Electrical Engineer
- James Palm Stober** G 1910 Myerstown, Pa.
Professor of Biology, Albright College
- Alma Gracey Stokey** G 1907 South Hadley, Mass.
Associate Professor of Botany, Mt. Holyoke College
- Ole O Stoland** G 1911 Chicago, Ill.
Graduate Student, University of Chicago
- Reuben Myron Strong** F 1904* Chicago, Ill.
Instructor in Zoology, University of Chicago
- Frank A St. Sure** G 1907 Colfax, Wash.
Physician
- John Sundwall** G 1905 Salt Lake City, Utah
Professor of Anatomy, University of Utah

Arthur Howard Sutherland	G 1908	Urbana, Ill.
Associate in Psychology, University of Illinois		
Charles Henry Swift	G 1911	Chicago, Ill.
Assistant, Department of Anatomy, University of Chicago		
Katashi Takahashi	G 1904	Tokyo, Japan
William Arthur Tarr	G 1910	Columbia, Mo.
Instructor in Geology, University of Missouri		
Shiro Tashiro	G 1909	Chicago, Ill.
Fellow in Physiology, University of Chicago		
Ethel M Terry	G 1909	Chicago, Ill.
Associate in Chemistry, University of Chicago		
David Duke Todd	G 1908	Chicago, Ill.
Physician		
William Laurence Tower	CF 1903*†	Chicago, Ill.
Assistant Professor of Zoology, University of Chicago		
Elizabeth Towle	G 1904	Philadelphia, Pa.
Research Assistant, Carnegie Institute		
Edward L Troxell	G 1911	New Haven, Conn.
Student in Yale University		
Charles Henry Turner	G 1906	St. Louis, Mo.
Instructor in Biology, Summer High School		
Edith Minot Twiss	G 1909	Topeka, Kas.
Assistant Professor of Botany, Dean of Women, Washburn College		
Joseph Edgar Tyree	G 1905	Salt Lake City, Utah
Physician		
John Andreas Udden	G 1907 (Iowa G 1906)	Chicago, Ill.
Illinois State Geological Survey, University of Chicago		
Joseph Bertram Umpleby	G 1909	Washington, D. C.
Assistant in Geology, U. S. Geological Survey		
Anthony Lispernard Underhill	G 1904* (Wisconsin F 1909)	Minneapolis,
Assistant Professor of Mathematics, University of Minnesota [Minn.		
Eugene VanCleaf	G 1909	Duluth, Minn.
Instructor in Geography, State Normal School		
Oswald Veblen	CF 1903*†	Princeton, N. J.
Preceptor in Mathematics, Princeton University		
Timotoe Dar Juan y Velilla	G 1909	Manila, P. I.
Assistant Chemist, Bureau of Science		
Stella B Vincent	G 1909	Chicago, Ill.
Graduate Student in Psychology, University of Chicago		
Charles Herman Viol	G 1910	Chicago, Ill.
Assistant in Chemistry, University of Chicago		
Charles L von Hess	F 1911	Chicago, Ill.
Assistant in Pharmacology, Medical School, Northwestern University		
Sidney Walker, Jr	G 1909	Chicago, Ill.
Interne, Cook County Hospital		
Chester Wesley Washburne	G 1906	Buenos Aires, Argentina
Geologist, Ministerio de Obras Publicas		

- Leslie Henry Ward G 1904 Kalamazoo, Mich.
Head Department of Geography, Western Normal School
- John Broadus Watson CF 1903*† Baltimore, Md.
Professor of Psychology, Johns Hopkins University
- Karl Tinsley Waugh G 1907 Beloit, Wis.
Professor of Psychology, Beloit College
- LeRoy Samuel Weatherby G 1909 Los Angeles, Cal.
Assistant Professor of Chemistry, University of Southern California
- Ralph Waldo Webster CF 1903*† Chicago, Ill.
Physician, Rush Medical College
- Ada Louise Weckel G 1905 (Michigan U 1905) Oak Park, Ill.
Teacher of Biology, High School
- Clara Jean Weidensall G 1909 Bedford Hills, N. Y.
Director of Research, State Reformatory for Women
- Stuart Weller CF 1903*† (Cornell U 1894) Chicago, Ill.
Associate Professor of Geology, University of Chicago
- Harry Gideon Wells CF 1903*† (Yale U 1895) Chicago, Ill.
Associate Professor of Pathology, University of Chicago
- Frank Howard Wescott G 1903 Hudson, Wyo.
Ranchman
- Franklin Lorenzo West G 1911 Logan, Utah
Professor of Physics, Utah Agricultural College
- Marion Ballantyne White G 1910 Lawrence, Kan.
Assistant Professor of Mathematics, University of Kansas
- Harry Nichols Whitford G 1904* Manila, P. I.
Forester, U. S. Bureau of Forestry
- Charles Otis Whitman CF 1903*†
(Deceased 1910)
- Harry Lewis Wieman G 1908 Cincinnati, Ohio
Assistant Professor of Zoology, University of Cincinnati
- Oswin William Willcox G 1904 Dover, N. J.
Consulting Chemist, U. S. Smokeless Powder Works
- Samuel Wendell Williston CF 1903*† (Kansas F 1893) Chicago, Ill.
Professor of Paleontology, University of Chicago
- Herrick East Wilson G 1911 Chicago, Ill.
Fellow in Paleontology, University of Chicago
- John Gordon Wilson G 1903 Chicago, Ill.
Professor of Osteology, Northwestern University Medical School
- Norman Richard Wilson G 1904* Winnipeg, Canada
Professor of Mathematics, Wesley College, University of Manitoba
- Thomas MacMaster Wilson G 1905
(Deceased 1908)
- George Winchester G 1903 (Washington F 1906) Washington,
Professor of Physics, Washington and Jefferson College [Pa.]
- Albert Woelfel G 1905 Chicago, Ill.
Instructor in Physiology, University of Chicago

- Rollin Turner Woodyatt G 1908 Chicago, Ill.
Assistant Professor of Medicine, Rush Medical College
- James Remus Wright G 1909 Manila, P. I.
Associate Professor of Physics, University of the Philippines
- Robert Bradford Wylie A 1904* (Iowa F 1907) Iowa City, Ia.
Professor of Botany, Iowa State University
- Shigeo Yamanouchi G 1905 Tokyo, Japan
Professor of Botany, Tokyo Teachers College
- Clarence Stone Yoakum G 1908 Austin, Tex.
Adjunct Professor of Philosophy, University of Texas
- Mary Sophie Young G 1908 Chicago, Ill.
Fellow in Botany, University of Chicago

MICHIGAN CHAPTER

UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN

Charter Dated May 26, 1903

Chapter Installed June 4, 1903

HISTORICAL SKETCH

The charter organizing this Chapter contains the names of thirty-five members of the faculty and graduates, who, as charter members, formed the nucleus of the present Chapter.

The first meeting of the new Chapter was held on June 4, 1903, at which Professor S. W. Williston, of Chicago, was present and formally installed the officers-elect. Since that time the Society has held three meetings annually for the transaction of business and for scientific addresses. It was not deemed desirable to have a larger number of meetings owing to the existence of an organization known as "The Research Club" which holds monthly meetings.

The first of the general addresses was given by Professor H. H. Donaldson, of Chicago, on March 24, 1904. The subsequent lectures have been May 19, 1904: Professor A. B. Prescott, on The Life of A. W. Hoffmann; December 14, 1904: Professor G. W. Patterson, on The Velocity of Sound; March 22, 1905: Professor E. W. Morley, Cleveland, on Recent Experiments on the Motion of the Earth Through the Luminiferous Ether; May 25, 1905: Professor F. G. Novy, on Recent Protozoal Researches; March 13, 1906: Professor W. F. Magie, Princeton, The Application of the Theory of Probabilities; May 15, 1906: Professor J. P. McMurrich, Recent Theories of Brain Functions; December 12, 1906: Professor W. J. Hussey, New Studies of the Stars; March 22, 1907: Professor W. E. Castle, Harvard, The Experimental Study of Heredity; May 2, 1907: Professor W. H. Hobbs, The Grand Eruption of Vesuvius in 1906; December 5, 1907: Professor M. E. Cooley, Some Street Railway Problems; April 24, 1908: Professor S. W. Williston, Chicago, The Development of the Elephant; May 22, 1908: Professor V. C. Vaughn, The Chemistry of the Living Cell; December 14, 1908: Professor Filibert Roth, Forest Fires; April 29, 1909: Professor A. W. Hewlett, Irregularities of the Heart; December 9, 1909: Professor Karl E. Guthe, The Method of Science; March 23, 1910: Baron Dairoku Kikuchi, The New Japan; its Moral and Intellectual Development; May 23, 1910: Doctor Robt. B. Bean, Filipino Types; December 7, 1910: Professor Jacob Reighard, Adaptation.

The total number of those initiated in the University of Michigan Chapter up to January 1, 1912, is 501. The resident members for the year 1910- 1911 number 106.

F. G. N.

OFFICERS FOR 1911-12

President.....	FREDERICK GEORGE NOVY
Vice-President.....	CHARLES JOSEPH TILDEN
Recording Secretary.....	EDWARD DUNBAR RICH
Corresponding Secretary.....	EDWARD DUNBAR RICH
Treasurer.....	ERMINIE COWLES CASE
Councilor.....	WILLIAM HERBERT HOBBS

MEMBERSHIP ROLL

Charles Christopher Adams	F 1903* (Illinois F 1908)	Urbana, Ill
Associate in Animal Ecology, University of Illinois		
Lydia Maria Adams	F 1904*	St. Louis, Mo.
(Mrs Alton D DeWitt) Assistant City Bacteriologist		
Edward William Adamson	U 1903	Douglas, Ariz.
Chief Surgeon and Physician, Cochise County Hospital		
James Howard Agnew	U 1910	Ann Arbor, Mich.
Assistant Professor in Internal Medicine, University of Michigan		
Harley Clifford Alger	U 1907	Hillsdale, Mich.
Engineer		
William Thomas Alliger	U 1909	Philadelphia, Pa.
Chief Chemist, Harrison Safety Boiler Works		
Whiting Alden	U 1910	Ann Arbor, Mich.
Instructor in Forestry, University of Michigan		
John Robins Allen	F 1903*	Ann Arbor, Mich.
Professor of Mechanical Engineering, University of Michigan		
Courtney Derby Allington	U 1906	Boston, Mass.
Manager, Allington and Curtis Manufacturing Company		
Henry Clay Anderson	F 1903	Ann Arbor, Mich.
Junior Professor of Engineering, University of Michigan		
Francis Wirt Appleton	U 1909	New York City
Engineer, New York Telephone Company		
James Rae Arneill	CG 1903†	Denver, Col.
Associate Professor of Medicine, University of Colorado		
Harry Loren Arnold	U 1911	Owosso, Mich.
Physician		
Louis Evans Ayres	U 1908	Detroit, Mich.
Engineer		
Ellen Botsford Bach	G 1903	Kalamazoo, Mich.
Teacher of Biology, Central High School		
Benjamin Franklin Bailey	F 1903	Ann Arbor, Mich.
Junior Professor of Electrical Engineering, University of Michigan		
Abel James Baker	U 1904	Grand Rapids, Mich.
Physician		
Horace Burrington Baker	U 1910	Ann Arbor, Mich.
Assistant in Zoology, University of Michigan		
Reuben Wilfred Balcom	F 1906*	Nashville, Tenn.
Chief Chemist, U. S. Food and Drug Inspection Laboratory		

Frederick Amos Baldwin	CF 1903*	St. Louis, Mo.
Professor of Pathology, American Medical College		
Melvin Dana Baldwin	U 1908	Grand Rapids, Mich.
Superintendent, Baldwin, Tuthill and Bolton		
Ralph Feiner Barker	U 1910	Pueblo, Col.
Joel Martin Barnes	U 1905	Boston, Mass.
Treasurer, Harpham and Barnes Company		
Albert Moore Barrett	A 1904	Ann Arbor, Mich.
Professor of Psychistry and Nervous Diseases		
Floyd Earl Bartell	G 1908	Ann Arbor, Mich.
Instructor in Chemistry, University of Michigan		
Owen Werner Bauer	U 1911	Ann Arbor, Mich.
Student, University of Michigan		
Harold Alexander Baxter	U 1909	Philadelphia, Pa.
Metallurgist, Midvale Steel Company		
Robert Bennett Bean	F 1906*	New Orleans, La.
Associate Professor of Anatomy, Tulane University		
Verner A Belcher	U 1911	New York City
Research Chemist, Western Electric Company		
Charles Holbrook Benedict	U 1911	Perry, N. Y.
Anna Christine Iverson Bennett		Busrah, Turkish Arabia
(Mrs Arthur K Bennett) Physician, Arabian Mission		
Ralph Beman	U 1908	Cleveland, Ohio
Engineer, National Electric Lamp Association		
Walfred Benson	U 1907	Battle Creek, Mich.
Teacher		
Samuel Lawrence Bigelow	F 1903*	Ann Arbor, Mich.
Professor of General and Physical Chemistry, University of Michigan		
Elton Pope Billings	U 1906	Grand Rapids, Mich.
Physician		
Marion Le Roy Billings	U 1909	Mt. Pleasant, Mich.
Teacher of Psychology and Education, Central State Normal School		
John Serenus Bordner	G 1907	Bristol, Ind.
Plant and Animal Breeding Station		
Harry Bouchard	U 1911	New York City
Assistant Engineer, The J. G. White Company		
Joseph Nicholas Bourg	U 1909	Omaha, Neb.
Wilbur Pardon Bowen	CG 1903†	Ypsilanti, Mich.
Professor of Physical Education, State Normal College		
Bessie Emily Bowman	U 1905	Duluth, Minn.
(Mrs Lorin H Jones)		
Lawrence Ray Boyer	U 1906	Washington, D. C.
Assistant, U. S. Bureau of Standards		
Edward Milton Bragg	F 1906	Ann Arbor, Mich.
Assistant Professor of Marine Engineering, University of Michigan		

Samuel Craighead Brandon (Deceased 1909)	U 1906	
Claude Brechner Teacher of Physics, Technical High School	U 1911	Cleveland, Ohio
Olga Louise Bridgman Physician, State Training School	U 1910	Geneva, Ill.
Harvey Clayton Brill Assistant Professor of Chemistry, Miami University	G 1911	Oxford, Ohio
Glenn B. Britton Research Chemist, Guy G. Major Company	U 1907	Toledo, Ohio
Roy Alton Brown Physician	U 1905	Philippine Islands
Warren David Brush Expert, United States Forest Service	G 1906	Washington, D. C.
William Carr Bulmer Master Mechanic, American Steel Foundry	U 1909	Franklin, Pa.
James Dennis Burby Chemist, Electrical Testing Laboratories	U 1911	New York City
Edward Morris Burd Engineer, Commonwealth Power Company of Michigan	U 1911	Jackson, Mich.
William Allds Burnham Electrical Engineer	U 1909	Chicago, Ill.
George Plumer Burns Professor of Botany, University of Vermont	F 1904*	Burlington, Vt.
Frank Burton Consulting Chemist	U 1907	Detroit, Mich.
William Henry Buskirk Physician and Surgeon	U 1904	Miles City, Mont.
Carl Dudley Camp Professor, Diseases of Nervous System, University of Michigan	F 1911	Ann Arbor, Mich.
Edward DeMille Campbell Professor of Chemical Engineering, University of Michigan	F 1903*†	Ann Arbor, Mich.
Myrtle Pearle Campbell (Mrs Benjamin B Gould)	U 1906	St. Louis, Mo.
Robert John Carney Instructor in Analytical Chemistry, University of Michigan	U 1907	Ann Arbor, Mich.
Gail Luke Carver Professor of Biology, Mercer University	U 1907	Macon, Ga.
Ermine Cowles Case Junior Professor of Geology and Paleontology, University of Michigan	F 1903* (Kansas U 1893)	Ann Arbor, Mich.
Dana Brackenridge Casteel Adjunct Professor of Zoology, University of Texas	G 1903* (Pennsylvania G 1902)	Austin, Tex.
Otto Leslie Castle	U 1909	Kansas City, Mo.
Leroy William Childs Physician	U 1906	Atlanta, Ga.

Earle Hart Clapp	U 1905 Inspector, U. S. Forest Service	Washington, D. C.
Alva Benson Clark	U 1911 Assistant Engineer, American Telephone and Telegraph Company	New York City
Robert Watson Clark	U 1908 Instructor in Petrography, University of Michigan	Ann Arbor, Mich.
Arthur Brooks Clawson	G 1905 (Wisconsin CF 1907) Assistant Professor of Biology, Lake Forest University	Lake Forest, Ill.
Charles W Cobb	G 1911 Assistant Professor in Mathematics, Amherst College	Amherst, Mass.
William Thomas Lee Cogger	U 1910 Engineer, National Electric Lamp Association	Fostoria, Ohio
Walter Francis Colby	G 1903 Instructor in Physics, University of Michigan	Ann Arbor, Mich.
Harrie Newton Cole	U 1906* Instructor in Analytical Chemistry, University of Michigan	Ann Arbor, Mich.
Lee Holt Cone	CF 1903* Instructor in Chemistry, University of Michigan	Ann Arbor, Mich.
Charles Wilfred Cook	U 1906 Instructor in Economic Geology, University of Michigan	Ann Arbor, Mich.
William George Cook	U 1904 Engineer	Chicago, Ill.
Mortimer Elwyn Cooley	F 1903*† Dean of Engineering Department, University of Michigan	Ann Arbor, Mich.
Thomas Benton Cooley	F 1903 Physician	Detroit, Mich.
Thurlow Emmett Coon	U 1906 Engineer, The Coon-De Visser Company	Detroit, Mich.
Grace Beers Cooper	U 1906 Science Teacher, Portage Street High School	Kalamazoo, Mich.
Otis Merriam Cope	U 1904 Instructor in Physiology, University of Michigan	Ann Arbor, Mich.
David Murray Cowie	F 1903* Clinic Professor of Pediatrics, University of Michigan	Ann Arbor, Mich.
Clyde Firman Craig	U 1904 Instructor in Mathematics, Cornell University	Ithaca, N. Y.
Harry Wolven Crane	G 1911 Assistant in Sociology, University of Michigan	Ann Arbor, Mich.
Howard Hasting Cummings	U 1910 Instructor in Gynecology and Obstetrics, University of Michigan	Ann Arbor, Mich.
George Morris Curtis	G 1910 Instructor in Zoology, University of Michigan	Ann Arbor, Mich.
Maynie Rose Curtis	U 1905 Assistant in Biology, Agricultural Experiment Station, University of Maine	Orono, Me.
Ralph Hamilton Curtiss	G 1907* (California G 1902) Assistant Professor of Astronomy, University of Michigan	Ann Arbor, Mich.

Arthur Robertson Cushny	CF 1903*	London, England
Professor of Pharmacology,	University College, University of London	
Alfred Paul Dachnowski	G 1905* (Ohio F 1908)	Columbus, Ohio
Assistant Professor of Botany,	Ohio State University	
John Franklin Daniel	F 1910*	Berkeley, Cal.
Assistant Professor of Zoology,	University of California	
Leo Harvey Darrow	U 1910	New York City
Engineer, American Telephone and Telegraph Company		
Raymond Cornwell Darrow	U 1910	New York City
Engineer, American Telephone and Telegraph Company		
Wirt Edward Darrow	U 1911	Newark, N. J.
Plant Engineer, New York Telephone Company		
Cassius Miles Davis	G 1908	Schenectady, N. Y.
Consulting Engineer, General Electric Company		
Joseph Baker Davis	F 1909*†	Ann Arbor, Mich.
Emeritus Professor of Geodasy, University of Michigan		
John R Davis	U 1909	Mexico City, Mex.
Physician		
Harlow Noble Davock	U 1909	Jackson, Mich.
Engineer		
Jean Dawson	G 1905*	Cleveland, Ohio
Teacher of Biology, Cleveland Normal Training School		
Arthur James Decker	U 1905	Ann Arbor, Mich.
Instructor in Civil Engineering, University of Michigan		
Paul Edward Demmler	U 1905	Charleston, W. Va.
Consulting Chemist, Testing Laboratory		
Charles Beylard de Nancrede	F 1904*	Ann Arbor, Mich.
Professor of Surgery, University of Michigan		
John Henry De Visser	U 1907	Detroit, Mich.
Engineer, The Coon-De Visser Company		
Lydia Maria Adams DeWitt	F 1904*	St. Louis, Mo.
(Mrs Alton D DeWitt) Assistant City Bacteriologist		
Stewart Lloyd DeWitt	U 1911	Providence, R. I.
Interne, Rhode Island Hospital		
Archibald Warren Diack	G 1908	Detroit, Mich.
Chemist		
M Everett Dick	U 1906	Cape Town, South Africa
Chemist, Cape's Explosive Company		
James Robert Dickson	U 1908	Dauphin, Manitoba
Assistant Inspector, Dominion Forest and Game Preserves		
Robert Livingston Dixon	U 1910	Lansing, Mich.
Executive Officer, Michigan State Board of Health		
George Dock	F 1903*†	St. Louis, Mo.
Professor of Medicine, Washington University Medical School		
Fabian Bouton Dodds	G 1907	Spokane, Wash.
Lawyer, U. S. Land Office		

Albert Wilford Dorr	CG 1903	Mt. Vernon, Ohio
Teacher of Science, High School		
James Edwin Duerden	F 1904*	Grahamstown, Cape Colony
Professor of Biology, Rhodes University College		
Frances Jewett Dunbar	G 1905	Ann Arbor, Mich.
Assistant in Zoology, University of Michigan		
David Christie Duncan	U 1911 (Purdue F 1911)	Lafayette, Ind.
Instructor in Physics, Purdue University		
Frederick Levy Dunlap	F 1903*	Washington, D. C.
Associate Chemist, Bureau of Chemistry, Department of Agriculture		
Lionel Herman Duschak	U 1904*	Corning, N. Y.
Research Chemist, Corning Glass Works		
Richard d'Zeeuw	U 1907	Lansing, Mich.
Graduate Student, University of Michigan		
Katharine Louise Eager	U 1909	Salt Lake City, Utah
Physician		
Horace Matthew Edmands	U 1909	Sault Ste. Marie, Mich.
Electrician, U. S. Engineering Office		
Charles Wallis Edmunds	CF 1903	Ann Arbor, Mich.
Professor of Materia Medica and Therapeutics, University of Michigan		
John Edward Emswiler	F 1908 (Ohio U 1903)	Ann Arbor, Mich.
Instructor in Engineering, University of Michigan		
Frances Mary Eschenburg	U 1907	Corning, N. Y.
(Mrs Lionel Herman Duschak)		
Edwin Walter Esslinger	U 1907	Baltimore, Md.
Graduate Student, Johns Hopkins University		
Edward King Evatt	U 1910	Washington, D. C.
Construction and Repair Department, Navy Yard		
Harold Kniest Faber	U 1911	New York City
Interne, New York Hospital		
Lemuel William Famulener	CG 1903	New York City
Assistant Director, Research Laboratory, Department of Health		
Frank Alexander Ferguson	U 1908	Oshkosh, Wis.
Professor of Physics, State Normal School		
Peter Field	F 1903* (Minnesota G 1897)	Ann Arbor, Mich.
Assistant Professor of Mathematics, University of Michigan		
Frank Richard Finch	U 1904 (Yale U 1904)	Ann Arbor, Mich.
Instructor in Descriptive Geometry, University of Michigan		
Walter Turner Fishleigh	U 1906	Detroit, Mich.
Instructor in Drawing, University of Michigan		
Victor Benedict Fitzpatrick	U 1907	New Castle, Pa.
Engineer		
Robert Stephenson Fleshiem	U 1904	Detroit, Mich.
Sales Engineer, Allis-Chalmers Company		

James Howard Flynn	U 1909	Detroit, Mich.
Engineer, Michigan Central Railroad		
Walter Burton Ford	F 1903	Ann Arbor, Mich.
Junior Professor of Mathematics, University of Michigan		
Otto Albert Freund	U 1910	New York City
Engineer, American Telephone and Telegraph Company		
Harry Henry Frost	U 1908	Akron, Ohio
Engineer		
John Gray Gage	U 1908	Linville, N. C.
Physician		
Joseph K Gannett	U 1910	Cleveland, Ohio
Engineer, with Anton Burchard		
Vera Placida Gardner	U 1911	Los Angeles, Cal.
Assistant in Physiology, University of Southern California		
John Carlyle Garrels	U 1907	Detroit, Mich.
Expert, Solvay Process Company		
William Van Nest Garretson	F 1910 (Yale G 1904)	Ann Arbor, Mich.
Instructor in Mathematics, University of Michigan		
Louis Merwyn Gelston	CG 1903	
(Deceased 1906)		
Edwin Leroy Gemmill	U 1905	Pittsburgh, Pa.
Structural Engineer, Jones and Laughlin Steel Company		
Harry Myers George	U 1911	Leadville, Col.
Chemist, American Smelting and Refining Company		
Quinter Olen Gilbert	U 1909	Ann Arbor, Mich.
Assistant in Zoology, University of Michigan		
Otto Charles Glaser	F 1906*	Ann Arbor, Mich.
Assistant Professor of Zoology, University of Michigan		
Henry Allen Gleason	F 1910* (Illinois G 1904)	Ann Arbor, Mich.
Assistant Professor of Botany, University of Michigan		
James Waterman Glover	F 1903*†	Ann Arbor, Mich.
Professor of Mathematics, University of Michigan		
Henry Newell Goddard	G 1910	Superior, Wis.
Professor of Biology, Normal School		
Moses Gomberg	CF 1903*†	Ann Arbor, Mich.
Professor of Organic Chemistry, University of Michigan		
Thomas DeWitt Gordon	U 1909	Grand Rapids, Mich.
Physician		
Alexander MacDonald Graver	U 1905	Chicago, Ill.
Purchasing Agent, William Graver Tank Works		
Clarence Jasper Green	U 1908	Portland, Ore.
Power Salesman, Mount Hood Railway and Power Company		
Albert Emerson Greene	F 1906	Ann Arbor, Mich.
Professor of Civil Engineering, University of Michigan		
Arthur Emery Greene	F 1905	Leslie, Mich.
Physician		
Clarence Wilson Greene	G 1910	Albion, Mich.
Professor of Physics, Albion College		

- Charles Edward Griffin G 1909 San Bernardino, Cal.
Head of Science Department, High School
- John Howell Griffith F 1909 Pittsburgh, Pa.
Engineer Physicist, Bureau of Standards
- Herman John August Grossmann U 1911 Ann Arbor, Mich.
Student in Forestry, University of Michigan
- Karl Eugen Guthe CF 1905*† (Iowa F 1906) Ann Arbor, Mich.
Professor of Physics, University of Michigan
- William Jay Hale F 1905* Ann Arbor, Mich.
Assistant Professor of Chemistry, University of Michigan
- William Worth Hale F 1908 Washington, D. C.
Pharmacologist, United States Hygienic Laboratory
- Arthur Graham Hall F 1908* Ann Arbor, Mich.
Professor of Mathematics, and Registrar, University of Michigan
- Asaph Hall F 1903*† Washington, D. C.
Professor of Mathematics, Naval Observatory
- Stuart McCune Hamilton U 1909 Ann Arbor, Mich.
Instructor in Commerce, University of Michigan
- Lucie Harmon U 1910 Milwaukee, Wis.
Teacher of Biology, West Division High School
- Ruth Ellen Harrison U 1907 Olympia, Wash.
(Mrs Parish Storrs Lovejoy)
- Robert Henry Haskell U 1910 Syracuse, N. Y.
Instructor in Anatomy, Syracuse University
- Donald Theodore Hastings U 1907 Detroit, Mich.
Engineer, General Motors Company
- Samuel Reese Haythorn U 1904 Pittsburgh, Pa.
Assistant Professor of Pathology, University of Pittsburgh
- Lewis Henry Hector U 1905 Pittsburgh, Pa.
Physician
- Robert Wilhelm Hegner F 1909* Ann Arbor, Mich.
Assistant Professor of Zoology, University of Michigan
- John Helfman U 1904 Detroit, Mich.
Parke Davis Company
- William D Henderson F 1908* Ann Arbor, Mich.
Assistant Professor of Physics, University of Michigan
- Albion Walter Hewlett F 1909* Ann Arbor, Mich.
Professor of Internal Medicine, University of Michigan
- Rufus Percival Hibbard G 1905* East Lansing, Mich.
Research Assistant in Plant Physiology, Michigan Agricultural College
- Henry Harold Higbie F 1905* (Columbia G 1905) Boston, Mass.
Assistant Professor of Electrical Engineering, Wentworth Institute
- George Oswin Higley F 1903* Delaware, Ohio
Professor of Chemistry, Ohio Wesleyan University
- Theophil Henry Hildebrandt G 1907 Ann Arbor, Mich.
Instructor of Mathematics, University of Michigan

- William Herbert Hobbs F 1906*† Ann Arbor, Mich.
Professor of Geology, University of Michigan
- Edward Lawrence Hogan U 1905 Chicago, Ill.
Manager, Chicago Office, American Blower Company
- Ray Kingsbury Holland U 1908 Ann Arbor, Mich.
With G. S. Williams, Consulting Engineer
- Arthur Holmes U 1904 Syracuse, N. Y.
Engineer, H. H. Franklin Manufacturing Company
- Samuel Jackson Holmes F 1903*† (Wisconsin CF 1907) Madison, Wis.
Assistant Professor of Zoology, University of Wisconsin
- Raymond Barclay Hosken U 1910 Chicago, Ill.
Engineer
- Alexis Charles Houghton U 1905 Syracuse, N. Y.
Chemist, Solvay Process Company
- Charles Kent Houston U 1905 Minneapolis, Minn.
Manager, William B. Hough Company
- Horace John Howk U 1907 Mt. McGregor, N. Y.
Physician, Tuberculosis Sanitarium
- Gotthelf Carl Huber CF 1903*† Ann Arbor, Mich.
Professor of Histology and Embryology, University of Michigan
- George Augustus Hulett CF 1903* Princeton, N. J.
Professor of Physical Chemistry, Princeton University
- John Herman Hunt U 1905 (Ohio F 1907) Columbus, Ohio
Associate Professor of Electrical Engineering, Ohio State University
- Walter Fred Hunt G 1906 Ann Arbor, Mich.
Instructor in Mineralogy, University of Michigan
- Fred Walter Hunter G 1910 Rochester, N. Y.
Instructor in Chemistry, University of Rochester
- Henri Th. Antoine de Leng Hus F 1910 Ann Arbor, Mich.
Instructor in Botany, University of Michigan
- William Joseph Hussey F 1906*† Ann Arbor, Mich.
Professor of Astronomy, University of Michigan
- Arthur Wheaton Ide U 1905 Brainerd, Minn.
Assistant Chief Surgeon, Northern Pacific Railway Hospital
- Anna Christine Iverson U 1907 Busrah, Turkish Arabia
(Mrs Arthur K Bennett)
Medical Missionary
- Andrew Douglas Jamieson U 1910 Detroit, Mich.
Engineer, City Waterworks
- Clara Octavia Jamieson G 1905 Washington, D. C.
Assistant, United States Bureau of Plant Industry
- Cyril Methodius Jansky U 1904* Madison, Wis.
Associate Professor of Engineering, University of Wisconsin
- Herbert Spencer Jennings CF 1903*† Baltimore, Md.
Professor of Zoology, Johns Hopkins University
- Ralph Drury Jennison U 1908 Owensboro, Ky.
Engineer

MICHIGAN CHAPTER

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Robert Lee Jickling	U 1911	Ann Arbor, Mich.
Graduate Student, University of Michigan		
Clarence Thomas Johnston	F 1911	Ann Arbor, Mich.
Professor Surveying and Geodesy, University of Michigan		
Laurence Crane Johnson	U 1910	Ann Arbor, Mich.
Assistant in Chemistry, University of Michigan		
Charles Willis Johnson	CG 1903* (Washington CF 1907)	Seattle,
Dean of College of Pharmacy, University of Washington [Wash.		
William Demorest Johnston	U 1906	Butler, Pa.
Engineer, C. D. & P. Telephone Company		
Albert Barnett Jones	U 1910	Detroit, Mich.
Engineer, United States Lake Survey		
Bessie Emily (Bowman) Jones	U 1905	Duluth, Minn.
(Mrs Lorin H Jones)		
George Abel Paul Kamperman	F 1911	Ann Arbor, Mich.
Instructor in Obstetrics and Gynecology, University of Michigan		
Clyde Fenworth Karshner	U 1908	Big Rapids, Mich.
Physician		
Calvin Henry Kauffman	F 1904* (Cornell G 1903)	Ann Arbor, Mich.
Instructor in Botany, University of Michigan		
Lloyd Marley Keller	U 1911	Rochester, N. Y.
Assistant Engineer, Rochester Light and Power Company		
William Herbert Kempfer	U 1906	Madison, Wis.
Assistant, Forest Products Laboratory		
George Eaton Kephart	U 1908	South Bend, Ind.
Engineer, Indiana and Michigan Electric Company		
William Robertson Kepler	U 1909	North Girard, Pa.
Engineer		
Peter Keplinger	U 1908	Wagon Wheel Gap, Col.
Assistant, United States Bureau of Forestry		
Virgil Morrison Kime	U 1906	Indianapolis, Ind.
Associate Actuary, American Central Life Insurance Company		
Abraham Albert Klein	U 1911	Pittsburgh, Pa.
Petrographer, Bureau of Standards, United States Government		
Clarence Carl Knipmeyer	U 1907	Terre Haute, Ind.
Associate Professor of Engineering, Rose Polytechnic Institute		
Edward Henry Kraus	F 1905*	Ann Arbor, Mich.
Professor of Mineralogy, University of Michigan		
Clarence Henry Kremers	U 1906	Salt Lake City, Utah
Engineer		
Julius Frank Kummel	G 1907	Portland, Ore.
United States Forest Service		
Lucas Petron Kyriakides	G 1909 (Illinois F 1909)	Cambridge, Mass.
Chemist.		
Albee Lovejoy Ladd	U 1908	St. Paul, Minn.
Civil Engineer		

Fleeta Alberta Lamb	U 1911 Housekeeper	Aspen, Col.
George William Lamke	U 1906 (Washington CF 1910) Assistant Professor of Electrical Engineering, Washington University	St. Louis, Mo.
George Rogers La Rue	F 1911 (Nebraska G 1908; Illinois F 1909) Professor of Zoology, University of Michigan [Ann Arbor, Mich.	
Elmer Claud Lawton	U 1907 Draftsman, Lackawanna Bridge Company	Buffalo, N. Y.
Mary Frances Leach	G 1904* Professor of Chemistry, Western College for Women	Oxford, Ohio
Frank Leverett	F 1909*† United States Geological Survey, Lecturer at University of Michigan	Ann Arbor, Mich.
David J Levy	U 1906 Physician	Detroit, Mich.
George W Cass Lightner	U 1909 Bridge Engineer, Grand Trunk Railway	Toronto, Canada
Samuel Colville Lind	F 1906* Instructor in Chemistry, University of Michigan	Ann Arbor, Mich.
George Allan Lindsay	U 1905 Instructor in Physics, Washington University	St. Louis, Mo.
Warren Plimpton Lombard	F 1903*† Professor of Physiology, University of Michigan	Ann Arbor, Mich.
Carlos Pointon Long	U 1905 Chemist, Globe Soap Company	Cincinnati, Ohio
John Parker Loudon	U 1908 Physician	North Yakima, Wash.
Clyde Elton Love	U 1905 Instructor in Mathematics, University of Michigan	Ann Arbor, Mich.
Alfred Henry Lovell	U 1909 Instructor in Engineering, University of Michigan	Ann Arbor, Mich.
Parish Storrs Lovejoy	U 1907 Supervisor, United States Forest Service	Olympia, Wash.
Ruth Harrison Lovejoy (Mrs Parish Storrs Lovejoy)	U 1907 ,	Olympia, Wash.
Nelson Ferris MacDuff	U 1905 Forester, United States Forest Service	Albany, Ore.
Milber Marshall MacLean	U 1909 Chemist, Dodge Manufacturing Company	Mishawaka, Ind.
Ward J MacNeal	CG 1903* (Illinois F 1907) Lecturer, New York Post-Graduate Medical School	New York City
Daniel Handley McAllister	U 1908 Assistant Superintendent, Telluride Power Company	Provo City, Utah
Edward Florince McCarthy	U 1911 (Syracuse F 1911) Assistant Professor in Forestry, Syracuse University	Syracuse, N. Y.
Carl C McClelland	U 1910 Physician	Detroit, Mich.

William Rennie McKinnon	U 1910	Milwaukee, Wis.
Engineer, Allis-Chalmers Company		
Robert Keith McMaster	U 1910	Milwaukee, Wis.
Engineer, Allis-Chalmers Company		
James Playfair McMurrich	CF 1903*†	Toronto, Canada
Professor of Anatomy, Toronto University		
Jessie Jones McNall	U 1908	Hastings, Mich.
Instructor in Botany, High School		
Lawrence Ross McNamee	U 1911	Gary, Ind.
Loren Wallace McOmber	U 1907	Ann Arbor, Mich.
Engineer		
James Everingham MacChesney	U 1910	Pittsburgh, Pa.
Engineer, Riter-Conley Manufacturing Company		
Herman William March	F 1905 (Wisconsin CF 1907)	Madison, Wis.
Assistant Professor of Mathematics, University of Wisconsin		
James Harmon Marks	U 1908	Ann Arbor, Mich.
Superintendent of Buildings and Grounds, University of Michigan		
Mark Marshall	U 1908	Ann Arbor, Mich.
Instructor in Therapeutics, University of Michigan		
Roy Edwin Mattern	U 1911	Detroit, Mich.
Draftsman, Russel Wheel and Foundry Company		
Donald Maxwell Matthews	U 1908	Manila, P. I.
Philippine Forest Service		
Franklin Bush Mead	U 1906	Fort Wayne, Ind.
Lincoln National Life Insurance Company		
Frank John Mellencamp	F 1909	Ann Arbor, Mich.
Instructor in Physics, University of Michigan		
William Orville Mendenhall	G 1911	Richmond, Ind.
Professor of Mathematics, Erlham College		
Ambrose Pond Merrill	G 1906	Provo, Utah
General Manager, Knight Power Company		
Wendel John Meyer	U 1911	Philadelphia, Pa.
Draftsman, Bureau of Construction and Repair, Navy Yard		
Adelbert Philo Mills	G 1909	Ithaca, N. Y.
Assistant Professor of Engineering, Cornell University		
Herbert Cossitt Mitchell	U 1909	La Grange, Ill.
Retired		
Lyman Foote Morehouse	G 1904	New York City
Engineer, American Telephone and Telegraph Company		
Roger Sylvester Morris	F 1904*	St. Louis, Mo.
Associate Professor of Medicine, Washington University		
William West Morris	U 1908	Wallace, Ida.
Forester		
Plinn Frederick Morse	U 1909	Detroit, Mich.
Physician, Children's Free Hospital		
Ralph Luther Morse	CG 1903	Norwalk, Ohio
Physician		

Walter Mulford	G 1905* (Cornell U 1901) Professor of Forestry, Cornell University	Ithaca, N. Y.
James Frederick Munson	CG 1903 Physician, Craig Colony	Sonyea, N. Y.
Ralph Murphy	U 1908 Traveling Engineer, H. H. Franklin Company	Syracuse, N. Y.
Adrian John Neerken	U 1906 Engineer, Packard Motor Car Company	Detroit, Mich.
Frederick Charles Newcombe	CF 1903*† Professor of Botany, University of Michigan	Ann Arbor, Mich.
Byron Deloss Niles	U 1903 Physician	Grand Ledge, Mich.
Carl Uno North	U 1909 Engineer, Brown Hoisting Machinery Company	Cleveland, Ohio
Henry Hazard Norton	U 1909 Engineer, Frederick Stearns Company	Detroit Mich.
Frederick George Novy	CF 1903*† Professor of Bacteriology, University of Michigan	Ann Arbor, Mich.
Peter Olaus Okkelberg	F 1909 (U 1906 Minnesota) Instructor in Zoology, University of Michigan	Ann Arbor, Mich.
Fredrick Arthur Osborn	G 1907* (Washington CF 1907) Professor of Physics, University of Washington	Seattle, Wash.
Olive E Outwater	U 1910 Teacher of Mathematics, High School	River Rouge, Mich.
Frank Keehn Ovitz	U 1905 Assistant Chemist, United States Bureau of Mines	Pittsburgh, Pa.
Charles Herbert Otis	U 1910 Curator, Botanical Garden, University of Michigan	Ann Arbor, Mich.
Clifford Emmett Paine	U 1911 Detaller, American Bridge Company	Ambridge, Pa.
Russel Burr Palmer	U 1911 Engineer, Saginaw-Bay City Railroad Company	Saginaw, Mich.
Ralzemond Drake Parker	U 1905 Assistant Professor of Electrical Engineering, University of Michigan	Ann Arbor, Mich.
Christopher Gregg Parnall	U 1904 Physician	Jackson, Mich.
Clarence Elmar Partch	U 1909 Instructor in Drawing, West High School	Des Moines, Ia.
Charles Lawson Patterson	U 1909 Engineer, Irrigating Lands Company	Pueblo, Col.
George Washington Patterson	F 1903* Professor of Electrical Engineering, University of Michigan	Ann Arbor, Mich.
Charles Lanphier Patton	G 1903 Physician, Prince Sanitarium	Springfield, Ill.
Raymond Pearl	CF 1903* Head of Department of Biology, Agricultural Experiment Station	Orono, Me.

Grace Darling Peele	U 1904 Physician	Brooklyn, N. Y.
U 1906 (Syracuse F 1910)	Syracuse, N. Y. Leigh H Pennington Assistant Professor of Botany, Syracuse University	
Alfred Emery Perkins	U 1908	Niagara Falls, N. Y.
Wendell LeRoy Perkins	U 1911 Instructor in Physiography, Jackson High School	Jackson, Mich.
Reuben Peterson	F 1903 Professor of Obstetrics and Gynecology, University of Michigan	Ann Arbor, Mich.
Frank Jay Phillips (Deceased 1911)	U 1906	
Archie Burton Pierce	F 1910* Assistant Professor of Engineering, University of Michigan	Ann Arbor, Mich.
Hugh Marion Pierce	G 1911 Detailer, W. G. Fargo, Consulting Engineer	Jackson, Mich.
Adrian John Pieters	G 1911 Student, Heidelberg, Germany	Hollister, Cal.
Walter Bowers Pillsbury	CF 1903*† (Cornell G 1894) Professor of Psychology, University of Michigan	Ann Arbor, Mich.
Roy Alfred Plumb	U 1906 Technical Director, Trussed Concrete Steel Company	Detroit, Mich.
James Barkley Pollock	F 1910* Junior Professor of Botany, University of Michigan	Ann Arbor, Mich.
William Edward Post	U 1904 Salesman, Locomobile Company of America	Bridgeport, Conn.
Elsie Seelye Pratt	U 1904 Physician	Denver, Col.
Albert Benjamin Prescott (Deceased 1905)	CF 1903†	
John Frederick Preston	U 1906 United States Forest Service	Washington, D. C.
Horace Patton Ramey	U 1907 Assistant Engineer, City Sanitary District	Chicago, Ill.
Harrison McAllister Randall	F 1906* Junior Professor of Physics, University of Michigan	Ann Arbor, Mich.
Webster Hamilton Ransom	U 1909 Forester, United States Forest Service	Libby, Mont.
Katherine Platt Raymond	U 1905 Physician, Wellesley College	Wellesley, Mass.
John Oren Reed	F 1904*† Dean of Science and Arts, University of Michigan	Ann Arbor, Mich.
Howard Sprague Reed	CG 1903* (Missouri CF 1905) Professor of Bacteriology, Virginia Polytechnic Institute	Blacksburg, Va.
Ralph John Reed	U 1908 Engineer, Union Oil Company	Los Angeles, Cal.
Jacob Ellsworth Reighard	F 1909*† Professor of Zoology, University of Michigan	Ann Arbor, Mich.

Daniel Leslie Rich	G 1908	Ann Arbor, Mich.
Instructor in Physics, University of Michigan		
Edward Dunbar Rich	F 1908 (Rensselaer U 1895)	Ann Arbor, Mich.
Assistant Professor of Engineering, University of Michigan		
George Fletcher Richmond	CG 1903	Manila, P. I.
Chemist, Bureau of Science		
Henry Earle Riggs	A 1899	Ann Arbor, Mich.
Consulting Engineer		
Charles Adolph Robertson	U 1907	Centreville, Ia.
Charles Summers Robinson	U 1907	East Lansing, Mich.
Research Chemist, University of Michigan Experiment Station		
Louis Francisco Ross	U 1907	Richmond, Ind.
Physician		
Augustus Henry Halyard Roth	CG 1903*	Erie, Pa.
Physician and Surgeon, St. Vincent's Hospital		
Filibert Roth	F 1903* (Cornell F 1900†)	Ann Arbor, Mich.
Professor of Forestry, University of Michigan		
George Byron Roth	G 1909	Ann Arbor, Mich.
Instructor in Pharmacology, University of Michigan		
Sidney Rumney Russel	U 1904	Detroit, Mich.
Engineer, Great Lakes Engineering Department		
Alexander Stuart Russell	U 1908	Los Angeles, Cal.
Engineer, El Segundo Oil Refinery		
Israel Cook Russell	CF 1903*	
(Deceased 1906)		
George Stanley Rutherford	U 1910	Ann Arbor, Mich.
Graduate Student, University of Michigan		
Alexander Grant Ruthven	G 1904*	Ann Arbor, Mich.
Assistant Professor of Zoology, University of Michigan		
Herbert Charles Sadler	CF 1903	Ann Arbor, Mich.
Professor of Naval Architecture, University of Michigan		
John Thomas Sample	U 1908	Saginaw, Mich.
Physician		
Julius Otto Schlotterbeck	CF 1903*†	Ann Arbor, Mich.
Dean, School of Pharmacy, University of Michigan		
Harry Burke Schmidt	U 1911	Ann Arbor, Mich.
Interne, University of Michigan Hospital		
Irving Day Scott	G 1907*	Ann Arbor, Mich.
Instructor in Geology, University of Michigan		
Walter Glenn Scott	U 1909	Orville, Ohio
Allis-Chalmers Company		
William James Shackelton	U 1909	New York City
Laboratory Engineer, Western Electric Company		
William Day Shannon	U 1907	Sumner, Wash.
Assistant Superintendent, Stone and Webster Engineering Corporation		
Harold Hutchison Shearer	U 1908	Brooklyn, N. Y.
District Engineer, New York Telephone Company		

John Frederick Shepard	F 1904*	Ann Arbor, Mich.
Assistant Professor of Psychology, University of Michigan		
Aaron Franklin Shull	U 1908	Ann Arbor, Mich
Instructor in Zoology, University of Michigan		
Harry Augustus Shuptrine	U 1909	Mt. Vernon, Ohio
Draftsman, Mt. Vernon Bridge Company		
Ernest McPherson Sims	U 1908	Toronto, Canada
Engineer		
Emory Walter Sink	U 1911	Ann Arbor, Mich.
Assistant in Zoology, University of Michigan		
George Slocum	F 1911	Ann Arbor, Mich.
Demonstrator in Ophthalmology, University of Michigan		
William Gabb Smeaton	F 1906	Ann Arbor, Mich.
Assistant Professor of Chemistry, University of Michigan		
Bertram Garner Smith	U 1907 (Syracuse F 1907; Wisconsin F 1909)	
Graduate Student, Columbia University		[New York City]
Charles Stowell Smith	U 1905	San Francisco, Cal.
Forester, United States Department of Agriculture		
Richard A. Smith	G 1911	Lansing, Mich.
Assistant State Geologist, Michigan Geological Survey		
Seward Dwight Smith	U 1910	Washington, D. C.
Assistant, United States Forest Service		
Stephen Herbert Smith	U 1905	Cleveland, Ohio
Physician, Lakeside Hospital		
Thomas Albert Smith	U 1909	Grand Rapids, Mich.
City Engineer		
Frank William Smithies	U 1904	Rochester, Minn.
Physician, St. Mary's Hospital		
Clarence Snow	U 1908	Salt Lake City, Utah
Physician		
Harry Alfred Snow	U 1911	Cleveland, Ohio
Apprentice, National Electric Lamp Association		
Robert Earle Snyder	G 1907 (Case F 1907)	Cleveland, Ohio
Instructor in Physics, Case School of Applied Science		
Thomas Claude Spaulding	G 1909	St. Marie's, Ida.
Forester, United States Forest Service		
Olenus Lee Sponsler	U 1910	Lincoln, Neb.
Associate Professor of Forestry, University of Nebraska		
Charles Willett Spooner	U 1906	Ann Arbor, Mich.
Engineer with Henry E. Riggs		
Benjamin William Sprau	U 1911	Erie, Pa.
Superintendent, Erie City Boiler Company		
Sherwood Hubbard Standish	U 1905	Racine, Wis.
General Manager, Racine Steel Castings Company		
Edna Steinhardt	G 1910	New York City
Research Laboratory, City Board of Health		

Alviso Burdett Stevens, Jr	F 1907†	Ann Arbor, Mich.
Junior Professor of Pharmacy, University of Michigan		
Norman Hamilton Stewart	G 1910	Lewisburg, Pa.
Professor of Organic Science, Bucknell College		
Morris Henry Stimson	U 1903	Flint, Mich.
Manager, Buick Motor Company		
Wilfred Napoleon St. Peter	U 1905	Big Rapids, Mich.
Instructor in Physics, Ferris Institute		
George Linus Streeter	F 1911	Ann Arbor, Mich.
Professor of Anatomy, University of Michigan		
George Gottlieb Stroebe	F 1907	Manila, P. I.
Engineer, Bureau of Public Works		
Sidney Davis Strong	U 1907	Sault Ste. Marie, Mich.
Junior Engineer, United States Engineering Department		
Eliot William Studer	U 1910	Detroit, Mich.
Engineer, American Car and Foundry Company		
Harry Laurence Tanner	U 1908	Ann Arbor, Mich.
Instructor in Engineering, University of Michigan		
Joseph Luther Thalman	G 1908	Oak Park, Ill.
Teacher of Botany, High School		
Crystal Thompson	G 1910	Ann Arbor, Mich.
Scientific Assistant, University of Michigan Museum		
Robert Richardson Thomas	U 1904	Battle Creek, Mich.
Local Manager, Commonwealth Power Company		
Isaac Jay Thorp	U 1906	Newark, N. J.
Engineer		
Lambert Thorp	G 1911	Ann Arbor, Mich.
Assistant in General Chemistry, University of Michigan		
Charles Joseph Tilden	F 1907*	Ann Arbor, Mich.
Professor of Civil Engineering, University of Michigan		
Ralph Russell Tinkham	G 1906	Detroit, Mich.
Engineer, Eleventh Lighthouse District, United States Government		
Leroy Tileston	U 1911	Louisville, Ky.
Student, Louisville College of Dentistry		
Arturo Torregrosa	U 1906	Aguadilla, Porto Rico
Physician		
Nelson Elbridge Tousley	U 1904	East Watertown, Mass.
Chemist, Hood Rubber Company		
Reuben Simkin Tour	U 1910	New York City
Assistant Superintendent, Consolidated Gas Company		
Kenneth William Tracy	G 1911	Detroit, Mich.
Manager, Formula and Cost Department, Frederick Sterns and Company		
Edgar Nelson Transeau	CG 1903*	Charleston, Ill.
Professor of Botany, State Normal School		
Charles Earl Turner	U 1909	Denver, Col.
Hydrographer, State Engineer		

Benjamin Sayre Tuthill (Deceased 1910)	U 1909	
Don Orville Tylee Special Apprentice, Westinghouse Machine Company	U 1910	East Pittsburgh, Pa.
Jay DeWitt Utley, Jr	U 1907 Engineer	Winthrop Harbor, Ill.
Donald Dexter Van Slyke Associate Chemist, Rockefeller Institute for Medical Research	U 1905*	New York City
James Gerritt Van Zwaluwenburg	U 1907	Ann Arbor, Mich.
John Walter Vaughan	CG 1903 Physician	Detroit, Mich.
Victor Clarence Vaughan Dean of Department of Medicine, University of Michigan	CF 1903*†	Ann Arbor, Mich.
Victor Clarence Vaughan, Jr	G 1903* Physician	Detroit, Mich.
Frank Vaughn	U 1907 Engineer	Hamilton, Ohio
Warren Jay Vinton Secretary, Vinton Company	U 1911	Detroit, Mich.
Oswald Martin Wagenseil	U 1907 Engineer	Brooklyn, N. Y.
Allison Walker Mechanical Engineer, Sullivan Machinery Company	U 1911	Claremont, N. H.
Howard George Walker Research Chemist, Western Electric Company	U 1908	New York City
James Herbert Walker Engineer, Central Heating Company	U 1911	Detroit, Mich.
Ralph Eric Walker Physician, United States Navy Department (Retired)	U 1907	Montclair, N. J.
Erwin Van Doren Wallace	U 1907	St. Louis, Mo.
Hiram Lessiter Walton Assistant Engineer, Smith, Hinchman and Grylls	U 1908	Detroit, Mich.
Roy Eisen Ward Engineer, Long Sault Development Company	U 1910	Massena, N. Y.
Luther Fiske Warren Instructor in Microscopy, University of Michigan	U 1909	Ann Arbor, Mich.
Aldred Scott Warthin Professor of Pathology, University of Michigan	CF 1903*†	Ann Arbor, Mich.
Ada Louise Weckel Teacher of Biology, High School	U 1905	Oak Park, Ill.
Edward Howland Weld Physician	U 1907	Rockford, Ill.
Gertrude Webster Welton Physician, New York Infirmary for Women and Children	U 1910	Waterbury, Conn.
Edward Christopher Wentz	U 1911	Westgate, Ia.

Clarence Jay West	G 1910	Ann Arbor, Mich.
Assistant in Chemistry, University of Michigan		
George Benson Wheeler	U 1908	Brooklyn, N. Y.
Chemical Engineer		
Harold Sayre Wheeler	G 1910	Tacoma, Wash.
Vice President, Far West Lumber Company		
Sybil May Wheeler	G 1904	North Yakima, Wash.
(Mrs Charles Edgar Keeler)		
Alfred Holmes White	F 1909*	Ann Arbor, Mich.
Professor of Engineering, University of Michigan		
Lyle Antrim Whitsit	U 1905	Massena, N. Y.
Engineer		
Carl John Wiggers	U 1906*	New York City
Instructor in Physiology, Cornell University Medical College		
Ralph Benjamin Wiley	U 1906	Lafayette, Ind.
Assistant Professor of Engineering, Purdue University		
Frederic Wilson Willard	U 1906	Newark, N. J.
Chemist, Western Electric Company		
Hobart Hurd Willard	CG 1903*	Ann Arbor, Mich.
Assistant Professor of Chemistry, University of Michigan		
Vernon Justice Willey	U 1909	Kalamazoo, Mich.
Gardner Stewart Williams	F 1903*† (Cornell F 1901)	Ann Arbor, Mich.
Consulting Engineer		
Warren Benjamin Willfams	U 1908	Table Mound, Kan.
Engineer, United Kansas Portland Cement Company		
Levi Philip Ray Willoughby	G 1909	Jeffersonville, Ind.
George William Winslow	U 1911	Phillipsburg, N. J.
Draftsman, Ingersoll-Rand Company		
Harro Woltmann	U 1905	Mansfield, Ohio
Physician		
Neal Naramore Wood	U 1908	Washington, D. C.
First Lieutenant, United States Medical Corps		
John Joseph Woolfenden	G 1906	Detroit, Mich.
Draftsman		
Paul Bartholomew Work	U 1911	Tri-Mountain, Mich.
Interne, Copper Range Hospital		
Earl N Worth	U 1908	Kalamazoo, Mich.
Principal, Central High School		
Clarence George Wrentmore	F 1905	Manila, P. I.
Engineer, Bureau of Public Works		
Winthrop Robins Wright	U 1909	Atlanta, Ga.
Instructor, Georgia School of Technology		
Elizabeth Dorothy Wuist	G 1911	Ann Arbor, Mich.
Assistant in Botany, University of Michigan		
Oscar Herman Wurster	U 1905	Toronto, Canada
Assistant Manager, Lever Brothers, Ltd.		

- Leigh Jarvis Young** G 1911 Ann Arbor, Mich.
 Instructor in Silviculture, University of Michigan
- Charles Christian Zabriskie** U 1907 Walkerville, Ont.
 Engineer, Canadian Bridge Company
- Karl Wilhelmj Zimmerschied** U 1904 Detroit, Mich.
 Chief Metallurgist, General Motors Company
- Alexander Ziwet** CF 1903*† Ann Arbor, Mich.
 Professor of Mathematics, University of Michigan
- Stanislaus Jan Zowski-Zwierzchowski** F 1909 Ann Arbor, Mich.
 Junior Professor of Engineering, University of Michigan

ILLINOIS CHAPTER

UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS.

Charter Dated Dec. 17, 1903

Chapter Installed May 16, 1904

HISTORICAL SKETCH

Application for a Charter for the establishment of a Chapter of Sigma Xi at the University of Illinois was made in the spring of 1903, and the Charter was granted December 17, 1903. The Illinois Chapter was organized February 10, 1904. The public installation of the Chapter was held on May 16, 1904, at which time Professor Samuel W. Williston, then President of the National Society, delivered an address on Scientific Research. What may well be called the first regular scientific meeting of the Chapter was held November 28, 1904, and since that time there have been held annually from four to eight regular scientific meetings. At these scientific meetings there are presented, in general, the results of investigations that have considerable general scientific interest.

One of the regular features of our Commencement Week Exercises at the University, since the Commencement of 1906, is the annual address given under the joint auspices of the chapters of Phi Beta Kappa and Sigma Xi.

The Illinois Chapter has not neglected altogether the social element in its meetings.* After the more or less formal business or scientific part of a meeting refreshments are very often served and a social hour is enjoyed.

H. L. R.

PUBLICATIONS

By-Laws of the Illinois Chapter of the Society of the Sigma Xi, Urbana, Illinois, 1907. pp. 8.

OFFICERS FOR 1911-12

President	CHARLES FREDERICK HOTTES
Vice-President	THOMAS EDMUND SAVAGE
Recording Secretary	JAMES HARVEY PETTIT
Corresponding Secretary	HENRY LEWIS RIETZ
Treasurer	EDWARD NIGHT NASHBY
Councillor	STEPHEN ALFRED FORBES

MEMBERSHIP ROLL

Edwina Eunice Abbott	G 1909	Poughkeepsie, N. Y.
Assistant in Physiology, Vassar College		
William Lamont Abbott	A 1909†	Chicago, Ill.
Engineer, Chicago Edison Company		

- Duff Andrew Abrams F 1909 Urbana, Ill.
Associate in Engineering Experiment Station, University of Illinois
- Charles Christopher Adams F 1908* (Michigan F 1903) Urbana, Ill.
Associate in Animal Ecology, University of Illinois
- Milton Kent Akers U 1905 Pullman, Wash.
Assistant Professor of Electrical Engineering, Washington State College
- William Fitch Allen F 1910 (Stanford A 1907) Minneapolis,
Instructor in Histology, University of Minnesota [Minn.]
- Wynfred Emory Allen F 1910 (Nebraska G 1905) Venice, Cal.
Teacher, High School
- Fred Gray Allison F 1909 Fillmore, Sask.
Farmer
- Harry Orson Allison U 1906 Columbia, Mo.
Assistant Professor of Animal Husbandry, University of Missouri
- Thomas Hamer Amrine U 1906 Harrison, N. J.
Engineer, General Electric Company
- Arvid Robert Anderson U 1911 Urbana, Ill.
Graduate Scholar in Electrical Engineering, University of Illinois
- Samuel Herbert Anderson G 1911 Urbana, Ill.
Fellow in Physics, University of Illinois
- George Frederick Arps F 1910 (Indiana F 1909) Champaign, Ill.
Assistant Professor of Psychology, University of Illinois
- Joseph Paul Aumer U 1908 Urbana, Ill.
Assistant in Chemistry, Agricultural Experiment Station, University of Illinois
- Irwin Woodward Bach G 1909 Chicago, Ill.
Student, Rush Medical College
- Rufus Mather Bagg F 1907*† Appleton, Wis.
Professor of Geology, Lawrence College
- William Chandler Bagley F 1908*† (Cornell G 1900) Urbana, Ill.
Director, School of Education, University of Illinois
- Ernest Winfield Bailey G 1909* Urbana, Ill.
Associate in Horticulture, University of Illinois
- Harry Foster Bain F 1905*† (Chicago CF 1904) San Fran-
Editor, Mining and Scientific Press [cisco, Cal.]
- John Wallace Baird F 1906* (Cornell G 1902) Worcester, Mass.
Professor of Psychology, Clark University
- Ira Osborn Baker CF 1903*† Urbana, Ill.
Professor of Civil Engineering, University of Illinois
- Ray Luzerne Baker U 1907 Madison, Wis.
Instructor in Experimental Engineering, University of Wisconsin
- Clarence William Balke F 1907 (Pennsylvania G 1905) Urbana, Ill.
Assistant Professor of Chemistry, University of Illinois
- William Salisbury Ballard U 1904 Washington, D. C.
Assistant Pathologist, Bureau of Plant Industry
- George John Balzer G 1909 Milwaukee, Wis.
- Susan Jessie Barr U 1906 Santa Barbara, Cal.
Teacher in Public Schools

- James Theophilus Barrett F 1908 Urbana, Ill.
Associate and Chief Assistant in Botany, University of Illinois
- Edward Bartow F 1905*† (Kansas F 1898) Urbana, Ill.
Director of State Water Survey, University of Illinois
- John Besler Bassett U 1911 Schenectady, N. Y.
Student Engineer, General Electric Company
- Stuart Jeffrey Bates G 1911 Urbana, Ill.
Fellow in Physical Chemistry, University of Illinois
- Frank Stanley Bauer U 1911 Boulder, Col.
Instructor in Mechanical Engineering, University of Colorado
- Florence Gabrielle Baxter U 1911 Urbana, Ill.
Scholar in Mathematics, University of Illinois
- William Shirley Bayley F 1907*† Urbana, Ill.
Associate Professor of Mineralogy and Economic Geology
- George Denton Beal F 1911 (Columbia G 1910) Urbana, Ill.
Instructor in Chemistry, University of Illinois
- Frank Christian Becht F 1910* (Chicago G 1907) Urbana, Ill.
Assistant Professor of Physiology, University of Illinois
- James Edgar Bell G 1911 (Chicago G 1909) Urbana, Ill.
Assistant in Chemistry, University of Illinois
- Rodney Linton Bell U 1909 West York, Ill.
- Alfred Rittscher Bench U 1906 Galena, Ill.
Sales Office, Taylor Iron and Steel Company
- Claudius Edmund Bennett G 1910 (Nebraska U 1909) Urbana, Ill.
Fellow in Electrical Engineering, University of Illinois
- Elizabeth Ruth Bennett G 1908 Urbana, Ill.
Scholar in Mathematics, University of Illinois
- Ernst Julius Berg F 1910* Urbana, Ill.
Professor of Electrical Engineering, University of Illinois
- Charles Hugh Bethel U 1907 Pittsburgh, Pa.
Apprentice, Westinghouse Electric and Manufacturing Company
- Isabel Bevier CF 1903* Urbana, Ill.
Professor of Household Science, University of Illinois
- Lewis Isaac Birdsall G 1909 Rock Island, Ill.
Chemist and Superintendent of Filtration Plant
- Joseph Cullen Blair CF 1903*† Urbana, Ill.
Professor of Pomology, Chief of Horticulture, University of Illinois
- Raymond Silliman Blatchley F 1908 Urbana, Ill.
Assistant Geologist, Illinois State Geological Survey
- Albert Victor Bleininger F 1910* (Ohio U 1901) Urbana, Ill.
Professor of Ceramics, University of Illinois
- Frank Walker Bliss G 1909 Minneapolis, Minn.
Instructor in Chemistry, University of Minnesota
- Harry Clow Boardman U 1910 Chicago, Ill.
Draftsman, Chicago Bridge and Iron Works

Julius Valentine Bopp	U 1908	New Memphis, Ill.
Robert Lacey Borger	F 1908* (Chicago G 1904) Associate in Mathematics, University of Illinois	Urbana, Ill.
Napoleon Hiram Boynton	U 1909 With National Electric Lamp Association	Cleveland, Ohio
Herbert Amery Brand	U 1908	Urbana, Ill.
Royden Earl Brand	U 1909 Associate in Dairy Husbandry, University of Illinois	Urbana, Ill.
Walter Charles Emil Braum	U 1904 (Deceased 1905)	
Lester Paige Breckenridge	CF 1903*† Professor of Mechanical Engineering, Yale University	New Haven, Conn.
Charles F Briscoe	F 1911 Instructor in Botany, University of Illinois	Urbana, Ill.
Ira Sanford Brooks	U 1908 Manager, Deere Farm	Brandywine, Md.
John Pascal Brooks	F 1907 Director, Clarkson School of Technology	Potsdam, N. Y.
Morgan Brooks	CF 1903*† (Nebraska F 1899) Professor of Electrical Engineering, University of Illinois	Urbana, Ill.
Briggs Odd Brown	U 1908	Urbana, Ill.
Fay Cluff Brown	G 1905* (Iowa F 1910) Assistant Professor of Physics, State University of Iowa	Iowa City, Ia.
John Howard Brown	G 1909	Cambridge, Mass.
Avery Brundage	U 1909 Architect, Holabird and Roche	Chicago, Ill.
John Myron Bryant	F 1907* Assistant Professor of Electrical Engineering, University of Illinois	Urbana, Ill.
John Lee Buchanan	U 1904 Transformer Specialist, General Electric Company	Chicago, Ill.
Thomas Buck	F 1910* (Chicago G 1909) Instructor in Mathematics, University of California	Berkeley, Cal.
Jessie Jane Bullock	G 1906 (Mrs Herbert Kastner)	Tacoma, Wash.
George Francis Burch	U 1909 State Highway Commission	Springfield, Ill.
Laurie Lorne Burgess	F 1910 Associate in Chemistry, University of Illinois	Urbana, Ill.
Paul Steere Burgess	G 1911 Assistant in Bacteriology, University of Illinois	Urbana, Ill.
Charles Eldrid Burke	G 1911	Brantford, Ont.
Deane Burns	U 1907 Director, Research Laboratories, National Carbon Company	Cleveland, Ohio
Josephine Elizabeth Burns	G 1911 Fellow in Mathematics, University of Wisconsin	Madison, Wis.

Opal Burres	G 1909 Fellow in Zoology, University of Illinois	Urbana, Ill.
Thomas Jonathan Burrill	CF 1903*† Vice-President and Professor of Botany, University of Illinois	Urbana, Ill.
Horace Leland Bushnell	U 1908 Plan Inspector, City Building Department	Seattle, Wash.
Archie Stanton Buyers	U 1908 Instructor in Engineering, University of Illinois	Urbana, Ill.
Gilbert Haven Cady	F 1910 (Northwestern G 1907) Assistant Geologist, Illinois State Geological Survey	Urbana, Ill.
Will Carleton Caldwell	U 1911 Superintendent of Construction, Holabird and Roche, Architects	Chicago, Ill.
Albert Pruden Carman	CF 1903*† Professor of Physics, University of Illinois	Urbana, Ill.
Berton Eugene Carmichael	U 1905* In charge of Animal Husbandry, Ohio Agricultural Experiment Station	Wooster, Ohio
Orson Allen Carnahan	U 1910 Instructor, University of Pennsylvania	Philadelphia, Pa.
Frederic Walton Carpenter	F 1906* Assistant Professor of Zoology, University of Illinois	Urbana, Ill.
Maurice Leroy Carr	U 1905 Engineer, National Board of Underwriters' Laboratory	Chicago, Ill.
William Ernest Carroll	G 1911	Oderville, Utah
John Watrous Case	F 1909 Architect	Detroit, Mich.
Orlo Dorr Center	U 1905 Superintendent, Illinois State Farmers' Institute	Springfield, Ill.
Henry Livingston Coar	CF 1903* Professor of Mathematics, Marietta College	Marietta, Ohio
Walter Castella Coffey	U 1906 Assistant Professor of Sheep Husbandry, University of Illinois	Urbana, Ill.
Byron Kemp Coghlan	U 1908 Professor of Civil Engineering, New Mexico School of Mines	Sacarro, N. M.
Clyde Bestor Coleman	U 1907	New Windsor, Ill.
Ray Arthur Collins	U 1909 Chief of Survey Party, Bureau of Lands	Manila, P. I.
Stephen Sheldon Colvin	F 1907* Professor of Psychology, University of Illinois	Urbana, Ill.
Allen Burton Cooke	U 1907	Danville, Ill.
Charles Spencer Crandall	CF 1903 Professor of Pomology, University of Illinois	Urbana, Ill.
Arthur Robert Crathorne	F 1908* Associate in Mathematics, University of Illinois	Urbana, Ill.
Clifford Crosby	U 1905	Kewanee, Ill.
Lawrence Everett Curfman	U 1905 City Engineer	Pittsburg, Kan.

Richard Sydney Curtiss	F 1904 (Union F 1901)	Pasadena, Cal.
Professor of Chemistry, Throop Institute		
Stanley Gardner Cutler	U 1908	Manila, P. I.
Bureau of Public Works		
Eugene Davenport	CF 1903*†	Urbana, Ill.
Dean of the College of Agriculture and Professor of Thremmatology		
Ralph Emerson Deets	U 1908	Sterling, Ill.
With International Harvester Company		
William Maurice Dehn	CF 1903* (Washington F 1908)	Seattle, Wash.
Assistant Professor of Chemistry, University of Washington		
William Wells Denton	F 1909	Urbana, Ill.
Fellow in Mathematics, University of Illinois		
Clarence George Derick	F 1909*	Urbana, Ill.
Associate in Chemistry, University of Illinois		
James Ansel Dewey	U 1904	Armstrong, Ill.
Farmer		
Frank Walbridge DeWolf	F 1908	Urbana, Ill.
Director, Illinois State Geological Survey		
William Dietrich	F 1909	Urbana, Ill.
Assistant Professor of Swine Husbandry, University of Illinois		
Henry Bernhard Dirks	U 1904	Chicago, Ill.
Mechanical Engineer, National Machine Works		
Edward Lewis Dodd	F 1906 (Yale G 1904)	Austin, Tex.
Professor of Mathematics, University of Texas		
Robert Ernest Doherty	U 1909	Schenectady, N. Y.
With General Electric Company		
Frederick William Doolittle	F 1908 (Colorado F 1909)	Madison, Wis.
Assistant Professor of Engineering, University of Wisconsin		
Herman Douthitt	G 1911	Urbana, Ill.
Fellow in Zoology, University of Illinois		
Edgar Dwight Doyle	U 1910	New York City
Technical Assistant, Electrical Testing Laboratories		
Frank Oliver Dufour	F 1908*	Urbana, Ill.
Assistant Professor of Engineering, University of Illinois		
William Watson Earnest	G 1909	Champaign, Ill.
Superintendent of Schools		
Edward Murray East	G 1904*	Cambridge, Mass.
Assistant Professor of Plant Breeding, Harvard University		
Willard Clark Eells	U 1911	Urbana, Ill.
Research Fellow, Engineering Experiment Station		
Willard Leo Egy	G 1909	Pittsburgh, Pa.
Assistant Physicist, United States Bureau of Mines		
Torris Elide	U 1904	New York City
Assistant Engineer, New York Terminals, New York Central Railroad		
Walter Elmer Ekblaw	U 1910	Urbana, Ill.
Assistant in Geology, University of Illinois		

- Ralph Waldo Elden U 1905 Elburn, Ill.
Elburn Coal and Lumber Company
- Arthur Jackson Ellis U 1908 Washington, D. C.
Junior Geologist, United States Geological Survey
- Evar Emanuel Elm U 1911 Gary, Ind.
Chemist, Coke Plant, Indiana Steel Company
- Arnold Emch F 1911*† (Colorado CF 1905; Kansas F 1895)
Assistant Professor of Mathematics, University of Illinois [Urbana, Ill.]
- Arthur Donaldson Emmett G 1905* Urbana, Ill.
Assistant Chief in Animal Nutrition, University of Illinois
- Arthur Ludvig Enger U 1911 Brooklyn, N. Y.
Instructor in Civil Engineering, Brooklyn Polytechnic Institute
- Melvin Lorenius Enger U 1906 Urbana, Ill.
Assistant Professor of Engineering, University of Illinois
- Roy Victor Engstrom U 1904 Seattle, Wash.
In Business
- Thomas Reuben Ernest G 1910 Champaign, Ill.
- William Alonzo Etherton U 1904 Stillwater, Okla.
Architect
- John Marcus Evvard U 1907 (Missouri F 1908) Ames, Ia.
Experimentalist in Animal Husbandry, Iowa State College
- Daniel Cleveland Faber U 1908 Madison, Wis.
Instructor in Engineering, University of Wisconsin
- Stanley Prince Farwell U 1907 Urbana, Ill.
Instructor in Mechanics, University of Illinois
- Forest Addison Fisher U 1911 Urbana, Ill.
Assistant in Soil Physics, University of Illinois
- Francis Seeley Foote, Jr. F 1910 (Columbia G 1908) Urbana, Ill.
Associate in Railway Engineering, University of Illinois
- Stephen Alfred Forbes CF 1903*† Urbana, Ill.
Director, State Laboratory of Natural History, University of Illinois
- Carlotta Marks Ford U 1911 Manhattan, Kan.
Assistant, State Agricultural College
- Chester Charles Fowler U 1909 Ames, Ia.
Assistant Professor of Chemistry, Iowa State College
- Harry Bert Fox G 1905 Monmouth, Ill.
Superintendent of Brick and Tile Works
- Wilbur John Fraser CF 1903† Urbana, Ill.
Professor of Dairy Husbandry, University of Illinois
- Walter Lee Gaines U 1908 Urbana, Ill.
Associate in Dairy Husbandry, University of Illinois
- Bradley Charles Gardner U 1906 Chicago, Ill.
Assistant Chemist, State Food Laboratory
- Claud Mallory Garland F 1906 Collingswood, N. J.
Engineer, Camden Iron Works
- Frank Caleb Gates U 1910 Ann Arbor, Mich.
Assistant in Botany, University of Michigan

Charles Bayard Gibbons	U 1907	Seattle, Wash.
John Philo Gilbert	U 1905	Carbondale, Ill.
Professor of Biology, Southern Illinois Normal School		
Frederick William Gill	U 1906*	New York City
Research Chemist, General Electric Company		
James Herbert Gill	F 1906 (Minnesota G 1896)	Columbus, Ohio
Director, Columbus Trade School		
Hugh Glasgow	U 1908	Urbana, Ill.
Assistant in Entomology, University of Illinois		
Robert Douglas Glasgow	U 1908	Urbana, Ill.
Fellow in Entomology, University of Illinois		
Paul Bond Glassco	U 1904	Mount Clare, Col.
Henry Allen Gleason	G 1904* (Michigan F 1910)	Ann Arbor, Mich.
Assistant Professor of Botany, University of Michigan		
Pressley Adams Glenn	F 1911* (Kansas F 1908)	Urbana, Ill.
General Assistant, State Entomologist's Office		
Harry Frederick Godeke	U 1905	Urbana, Ill.
Instructor in Mechanical Engineering, University of Illinois		
Nellie Esther Goldthwaite	F 1908* (Chicago G 1903)	Urbana, Ill.
Associate in Household Science, University of Illinois		
Harrison Frederick Gonnerman	U 1908	Urbana, Ill.
Instructor in Theoretical and Applied Mechanics, University of Illinois		
Arturo V Gonzalez	U 1907	Monterey, Mexico
Architectural Engineer		
George Alfred Goodenough	CF 1903*	Urbana, Ill.
Professor of Thermodynamics, University of Illinois		
Ernest Elisha Gorsline	F 1908	New York City
Chemist		
William Freeman Myrick Goss	F 1907*†	Urbana, Ill.
Dean of College of Engineering, University of Illinois		
Sylvester Henry Grauten	U 1907	Culebra, C. Z.
Testing Engineer, Isthmian Canal Commission		
Daniel Thomas Gray	G 1905	Urbana, Ill.
Harry Davett Grigsby	U 1906	Chicago, Ill.
Chemist, Testing Department, Rock Island Railroad		
Harry Sands Grindley	CF 1903*†	Urbana, Ill.
Professor of Animal Chemistry, University of Illinois		
Alfred Otto Gross	U 1908	Cambridge, Mass.
Edward Austin Scholarship at Harvard		
Antonio Guell	G 1909	Baton Rouge, La.
Instructor in Engineering, Louisiana State University		
Axel Ferdinand Gustafson	U 1907	Urbana, Ill.
Associate in Soil Physics, University of Illinois		
John Christopher Gustafson	U 1905	Chicago, Ill.
Manager, Angert Wire and Iron Works		

Frank Stanley Hadfield	U 1904	Cincinnati, Ohio
Engineer, Globe Soap Company		
John George Haeffner	U 1911	Chicago, Ill.
Inspector, Universal Portland Cement Company		
Arthur Graham Hall	CF 1903* (Michigan F 1908)	Ann Arbor, Mich.
Registrar and Professor of Mathematics, University of Michigan		
Louis Dixon Hall	F 1909	Urbana, Ill.
Assistant Professor of Animal Husbandry, University of Illinois		
Howard Spurr Hammond	G 1909 (Ohio U 1908)	Goshen, Conn.
James Thomas Hanley	U 1910	Chicago, Ill.
Chicago Representative, Corrugated Bar Company		
Ivan Guy Harmon	U 1907	Denver, Col.
Charles Arthur Hart	F 1907*	Urbana, Ill.
Entomologist, State Laboratory of Natural History, University of Illinois		
William Edward Hart	U 1911	Winchester, Va.
Orchardist		
Charles Nelson Haskins	F 1906	Hanover, N. H.
Assistant Professor of Mathematics, Dartmouth College		
Philip Bovier Hawk	F 1907*† (Pennsylvania F 1903)	Urbana, Ill.
Professor of Physiological Chemistry, University of Illinois		
Cassius Clay Hayden	F 1909	Urbana, Ill.
Assistant Professor of Dairy Husbandry, University of Illinois		
Lee Herbert Hazard	U 1908	Rock Island, Ill.
Howard Spencer Hazen	U 1905	Boston, Mass.
Draftsman in Architect's Office		
Arthur Noble Heaney	U 1908	Enid, Okla.
Leonard Hegnauer	U 1906	Urbana, Ill.
Professor of Crop Production, University of Illinois		
Carl August Hellman	U 1906	Washington, D. C.
Examiner, United States Patent Office		
Donald Alison Henry	U 1909	Pittsburgh, Pa.
With Westinghouse Electric and Manufacturing Company		
Smith Tompkins Henry	U 1904	Cleveland, Ohio
District Manager, Engineering Record		
Nelson William Hepburn	U 1907	Urbana, Ill.
Associate in Dairy Manufacturing, University of Illinois		
Francis Craig Hersman	U 1909	Hersman, Ill.
Farmer		
Eugene Stewart Hight	U 1910	Peoria, Ill.
Operating Engineer, Illinois Traction System		
Jonas Ewing Hight	G 1909	Nashville, Tenn.
Norman Haden Hill	U 1909	Davenport, Ia.
Superintendent and Engineer, Temple and Burrows, Architects		
Frank Wyman Hilliard	U 1904	St. Louis, Mo.
Salesman, General Electric Company		

- Roy Wilson Hilts U 1904 Philadelphia, Pa.
Inspection Chemist, United States Appraiser's Stores
- Paul Alexander Hoffman U 1909 Urbana, Ill.
Fellow in Animal Nutrition, University of Illinois
- Vernon Leo Hollister U 1907 Lincoln, Neb.
Adjunct Professor of Electrical Engineering, University of Nebraska
- Willis Boit Holmes F 1907* (Chicago CF 1903) Fremont, Ohio
Chemist Superintendent, Ames Laboratories
- Alfred Wilhelm Homberger G 1910 Bloomington, Ill.
Professor of Chemistry, Illinois Wesleyan University
- Cyril George Hopkins CF 1903*† (Cornell G 1894) Urbana, Ill.
Professor of Agronomy, University of Illinois
- Herbert Andrew Hopper CF 1903 Ithaca, N. Y.
Farmer
- John Wesley Hornbeak F 1911 (Cornell) Urbana, Ill.
Instructor in Physics, University of Illinois
- Ezekiel Edward Hoskins U 1909 Norris City, Ill.
- Charles Frederick Hottes CF 1903* Urbana, Ill.
Assistant Professor of Botany, University of Illinois
- Paul Edward Howe U 1906 New York City
Assistant Professor of Biological Chemistry, Columbia University
- Claude Silbert Hudson F 1906* Washington, D. C.
Chemist, Bureau of Chemistry, United States Department of Agriculture
- Harold DeMott Hughes U 1907 (Missouri F 1908) Ames, Ia.
Professor of Crop Production, Iowa State College
- Albert Nash Hume F 1911 Brookings, S. D.
Professor of Agronomy, State College of Agriculture
- Adam Albert Hummel G 1908 Los Angeles, Cal.
Teacher of Science, State Normal School
- Agnes Hunt U 1908 East Lansing, Mich.
Professor of Domestic Science, Michigan Agricultural College
- Thomas Forsyth Hunt A 1909*† State College, Pa.
Dean of the School of Agriculture, Pennsylvania State College
- Helen Isham F 1907* (Cornell U 1903) Urbana, Ill.
Associate in Chemistry, University of Illinois
- Cora Anna Jacobs G 1909 Washington, D. C.
Assistant in Seed Testing, United States Department of Agriculture
- Carl James U 1907 Windsor, Ont.
Assistant Engineer, Pennsylvania Tunnel under East River
- Charles Austin James U 1909 Danville, Ill.
Superintendent, M. Yeager and Son, Contractors
- Delas Lawrence James U 1909 Hershey, Pa.
Agriculturist, Hershey Chocolate Company
- McNeal Cole James U 1909 Valley City, N. D.
Head of Department of Agriculture, State Normal School
- George Emile Jaquet U 1908 Minneapolis, Minn.
Salesman, General Electric Company

Thomas McLean Jasper	U 1911	Chicago, Ill.
Engineer, Alvord and Burdick		
George Leonard Jensen	U 1909	Chicago, Ill.
Architectural Engineer, Chicago Board of Education		
William Chance Johnson	U 1909	Salem, Ill.
Construction Engineer		
Grinnell Jones	F 1908*	Cambridge, Mass.
Instructor in Physical Chemistry, Harvard University		
Oliver Kamm	U 1911	Urbana, Ill.
Assistant in Chemistry, University of Illinois		
Truman Lee Kelley	U 1909	Fresno, Cal.
Teacher of Mathematics, High School		
George Theophilus Kemp	CF 1903*	Baltimore, Md.
Physician		
Josephine Ellrod Kerr	G 1909	Urbana, Ill.
Graduate Student, University of Illinois		
Albert Franklin Kidder	U 1906	Baton Rouge, La.
Professor of Agronomy, Louisiana State University		
Paul Kircher	U 1911	Urbana, Ill.
Student, University of Illinois		
Terño Kishi	G 1909	
David Klein	U 1906 (Wisconsin F 1908)	Madison, Wis.
Instructor in Chemistry, University of Wisconsin		
Willard Alfred Knapp	U 1907	West Lafayette, Ind.
Instructor in Engineering, Purdue University		
Lee Irving Knight	F 1908*	Chicago, Ill.
Assistant in Plant Physiology, University of Chicago		
Charles Tobias Knipp	CF 1903* (Cornell G 1899)	Urbana, Ill.
Assistant Professor of Physics, University of Illinois		
Carl Fred Knirk	U 1908	Cleveland, Ohio
Head of Geography Department, West Technical High School		
John McBride Knot	F 1908 (Ohio State G 1906)	Pittsburgh, Pa.
Pittsburgh Testing Laboratory		
Alfred Richard Koch	U 1907	Glen Ferris, W. Va.
Chemist, Electro Metallurgical Company		
Lily Gavit Kollock	F 1908*	Berkeley, Cal.
(Mrs Louis John Paetow)		
John Anton Kostalek	G 1909	Moscow, Ida.
Instructor in Chemistry, University of Idaho		
Alonzo Plumsted Kratz	G 1909	Urbana, Ill.
Assistant, Engineering Experiment Station, University		
Henry Kreisinger	U 1904	Spartanburg, S. C.
Fuel Engineer, Churchfield Company		
Fred William Kressman	U 1909	Madison, Wis.
Chemist, Forest Products Laboratory		
Lucas Petron Kyriakides	F 1909 (Michigan G 1909)	Cambridge, Mass.
Chemist		

- Burritt Samuel Lacy G 1908* Sewaren, N. J.
Assistant Manager, Perth Amboy Chemical Works
- George Roger LaRue F 1909 (Nebraska G 1908; Michigan F 1911)
Instructor in Zoology, University of Michigan [Ann Arbor, Mich.]
- Robert Louis Latzer U 1908 Highland, Ill.
In Business
- Carl Emil Lee F 1909 Madison, Wis.
Assistant Professor of Dairy Husbandry, University of Wisconsin
- Oscar Adolph Leutwiler F 1906 Urbana, Ill.
Assistant Professor of Machine Design, University of Illinois
- Burt A Lewis U 1906 Tacoma, Wash.
Architect, Dugan and Lewis
- Azariah Thomas Lincoln CF 1903* Troy, N. Y.
Assistant Professor of Chemistry, Rensselaer Polytechnic Institute
- Francis Church Lincoln F 1911* (Columbia G 1906) Champaign, Ill.
Associate in Mining Engineering, University of Illinois
- Ralph Corson Llewellyn U 1906 Chicago, Ill.
Architectural Engineer, Joseph C Llewellyn
- John William Lloyd F 1907 Urbana, Ill.
Professor of Olericulture, University of Illinois
- Robert Clinton Lloyd G 1905 Canton, Ill.
- Harry Stephen Lofquist U 1909 Cleveland, Ohio
Engineer, National Electric Lamp Association
- Arthur Russell Lord G 1911 Chicago, Ill.
Consulting Structural Engineer, Leonard Construction Company
- Robert James Love U 1908 Urbana, Ill.
Instructor in Architecture, University of Illinois
- Edward Roy Ludwig U 1911 Champaign, Ill.
Graduate Student, University of Illinois
- Ernest Barnes Lytle G 1904* Urbana, Ill.
Associate in Mathematics, University of Illinois
- Alexander Dyer MacGillivray F 1911*† (Cornell G 1900) Champaign, Ill.
Assistant Professor of Systematic Entomology, University of Illinois
- Hazel Hope MacGregor G 1909 (Kansas F 1910) Lawrence, Kan.
Instructor in Mathematics, University of Kansas
- Duncan Arthur MacInnes G 1909 Urbana, Ill.
Instructor in Physical Chemistry
- Ward J MacNeal F 1907 (Michigan CG 1903) New York City
Lecturer in Bacteriology, New York Post-Graduate Medical School
- Irwin Arthur Madden U 1911 Normal, Ill.
Professor of Agriculture, Illinois State Normal University
- Roscoe Conkling Main G 1907 Boston, Mass.
Student, Harvard Medical School
- Charles Wesley Malcolm F 1908 Urbana, Ill.
Assistant Professor of Structural Engineering, University of Illinois
- Frederick Maynard Mann F 1910 Urbana, Ill.
Professor of Architecture, University of Illinois

William Albert Manning	F 1909 (Stanford G 1902)	Palo Alto, Cal.
Assistant Professor of Mathematics, Leland Stanford Junior University		
Warren Moore Mansfield	U 1909	Abingdon, Ill.
Franklin Wales Marquis	U 1905	Urbana, Ill.
Associate in Railway Engineering, University of Illinois		
Roger Dearborn Marsden	U 1908	Washington, D. C.
Engineer, Drainage Investigations, United States Department of Agriculture		
William Christoph Marti	U 1909	East Lansing, Mich.
Assistant Chemist, Michigan Agricultural College		
Arselia Bessie Martin	U 1909	Chicago, Ill.
Architectural Drafting		
Mayne Segulne Mason	U 1911	Urbana, Ill.
Fellow in Electrical Engineering, State Engineering Experiment Station		
John Warne Mathewson	U 1909	Elburn, Ill.
Henry Albright Mattill	G 1909	Salt Lake City, Utah
Associate Professor of Physiological Chemistry, University of Utah		
David Thorpe May	U 1905	New York City
Ellen S McCarthy	F 1909 (Cornell U 1907)	Urbana, Ill.
Instructor in Chemistry, University of Illinois		
Lawrence Justin McCarty	U 1907	Sioux City, Ia.
Architectural Draftsman		
John Hancock McClellan	F 1908	Chicago, Ill.
Physician, Presbyterian Hospital		
William Thompson McClenahan	U 1909	Salem, Ill.
City Engineer		
Marcus Sanders McCollister	U 1910	Madison, Wis.
Elmer Massey McDonald	U 1910	Urbana, Ill.
Instructor in Crop Production, University of Illinois		
Lewis McDonald	U 1908	Chicago, Ill.
Chief Draftsman, Chicago Bridge and Iron Works		
David Ford McFarland	F 1910 (Kansas U 1899; Yale F 1909)	[Urbana, Ill.]
Assistant Professor of Chemistry, University of Illinois		
Donald McIntosh	CF 1903*†	Urbana, Ill.
Professor of Veterinary Science, University of Illinois		
Eugene Campbell McMillan	U 1909	Chicago, Ill.
Brainerd Mears	F 1908*	Williamstown, Mass.
Assistant Professor of Chemistry, Williams College		
Edward John Mehren	U 1906	New York City
Secretary and Manager, The Emerson Company		
Earl Bowman Millard	F 1911 (Colorado U 1910)	Champaign, Ill.
Assistant in Chemistry, University of Illinois		
Floyd Hays Millard	G 1910 (Colorado U 1910)	Urbana, Ill.
George Abram Miller	F 1908* (Cornell F 1898; Stanford CF 1902)	[Urbana, Ill.]
Professor of Mathematics, University of Illinois		

- Wilford Stanton Miller F 1911 (Indiana F 1910) Champaign, Ill.
Instructor, School of Education, University of Illinois
- Martin Lawrence Millsbaugh U 1907 Sault Ste. Marie, Ont.
Assistant Superintendent of Construction, Algoma Steel Company, Ltd.
- James Burt Miner CG 1903* (Columbia F 1903) Minneapolis,
Assistant Professor of Psychology, University of Minnesota [Minn.]
- Harold Hanson Mitchell U 1909 Urbana, Ill.
Assistant in Chemistry, University of Illinois
- Nolan Dickson Mitchell U 1910 Chicago, Ill.
Architectural Engineer
- Herbert Fisher Moore F 1908* (Cornell U 1899; Wisconsin A 1907)
Assistant Professor of Mechanics, University of Illinois [Urbana, Ill.]
- Joseph K Moore U 1908 Portland, Ore.
Assistant Manager, Western Clay Company and Columbia Clay Company
- Llewellyn Alexander Moorehouse G 1906 Stillwater, Okla.
Professor of Agronomy, Agricultural College
- Raymond Kurtz Morley F 1911 Champaign, Ill.
Instructor in Mathematics, University of Illinois
- Charles Robert Moulton U 1907* (Missouri G 1907) Columbia, Mo.
Assistant Professor of Chemistry, University of Missouri Experiment Station
- Clyde Leroy Mowder U 1907 Los Angeles, Cal.
Chief Engineer, Los Angeles Investment Company
- Herbert Windsor Mumford CF 1903*† Urbana, Ill.
Professor of Animal Husbandry, University of Illinois
- George Harold Myrick U 1910 Chicago, Ill.
General Electric Company
- Charles Anson Nash U 1909 Schenectady, N. Y.
- John Harland Nelson G 1909 (Case F 1910) Cleveland, Ohio
Professor of Mechanics, Case School of Applied Science
- Lewis Irving Neikirk F 1903* (Pennsylvania G 1903) Seattle, Wash.
Instructor in Mathematics, University of Washington
- Lloyd Francis Nickell U 1909 Urbana, Ill.
Assistant in Chemistry, University of Illinois
- Ingo Charles Nitz U 1908 Chicago, Ill.
- Clarence Eugene Noerenberg G 1909 Champaign, Ill.
Instructor in Theoretical and Applied Mechanics, University of Illinois
- William Atkinson North U 1910 St. Louis, Mo.
Engineer, Laclede Gas Light Company
- William Albert Noyes F 1907*† Urbana, Ill.
Director of Chemical Laboratory, University of Illinois
- John Nydegger U 1907 Detroit, Mich.
Structural Engineer
- Charles Hubert Oathout U 1907 Piper City, Ill.
- Henry Dickson Oberdorfer U 1910 Urbana, Ill.
Superintendent of Construction, University of Illinois

Rufus Chauncey Obrecht	F 1909 Expert Horse Judge	Topeka, Kan.
Frank Keehn Ovitz	F 1905 (Michigan U 1905) Assistant Chemist, U. S. Bureau of Mines	Pittsburgh, Pa.
Ellery Burton Paine	F 1908 Assistant Professor of Electrical Engineering, University of Illinois	Urbana, Ill.
Arthur William Palmer (Deceased 1904)	CF 1903	
John Ira Parcell	U 1909	Minneapolis, Minn.
Samuel Wilson Parr	CF 1903*† Professor of Applied Chemistry, University of Illinois	Urbana, Ill.
Lura Elizabeth Parsons (Mrs Erwin B Jordan)	U 1909	Orion, Ill.
Austin McDowell Patterson	F 1909* Editor, Chemical Abstracts, University of Ohio	Columbus, Ohio
Amos William Peters	F 1905* Harvard Medical College	Boston, Mass.
James Harvey Pettit	CF 1903 (Cornell U 1900) Professor of Soil Fertility, University of Illinois	Urbana, Ill.
Thomas Elmer Phipps	U 1906 Locating Engineer, Southern Pacific Airline and Lower California Railway	Seattle, Wash.
Bethel Stewart Pickett	G 1906 Professor of Horticulture, New Hampshire College	Durham, N. H.
Raymond Clark Pierce	U 1908 Hydraulic Engineer, United States Forest Service	Eugene, Ore.
Charles Stephen Pillsbury	U 1908 Engineer, Chicago Bridge and Iron Company	Chicago, Ill.
Willard Lacy Pollard	U 1906 United States Bureau of Patents	Washington, D. C.
Ethel Claire Pond	U 1910 Science Teacher, High School	Sycamore, Ill.
Amy Poorman	U 1909 Head of Household Science, Placer County High School	East Auburn, Cal.
* Jesse Roy Powell	U 1904 Chief Chemist, Armour Glue and Soap Works	Chicago, Ill.
John Lossen Pricer	F 1910 Professor of Biology, Illinois State Normal University	Normal, Ill.
Loring Harvey Provine	F 1909	Seattle, Wash.
William James Putnam	U 1910 Electrical Foreman, Illinois Traction System	Decatur, Ill.
Charles Ernest Ramser	U 1909 Engineer, Knoxville Power Company	Chilhowee, Tenn.
Frank Alfred Randall	U 1905 Chief Engineer, Morey, Newgard and Company	Chicago, Ill.
Jerome Edward Readhimer	U 1904 Superintendent of Soil Experiment Fields, University of Illinois	Urbana, Ill.

- Harry Wilfred Reddick G 1906* New York City
Instructor in Mathematics, Columbia University
- Frank Walker Reed G 1908* Urbana, Ill.
Instructor in Astronomy, University of Illinois
- Augustus Joseph Reef U 1904 Denver, Col.
With Victor Fuel Company
- Miriam Ursula (Welles) Reeves U 1904 Salt Lake City, Utah
(Mrs G J Reeves) Collaborator, United States Bureau of Entomology
- Edwin Theodore Renner U 1905 Chicago, Ill.
Engineer, South Halsted Street Iron Works
- Ernest Shaw Reynolds F 1908 Agricultural College, N. D.
Associate Professor of Botany, North Dakota Agricultural College
- John Lyon Rich F 1911 (Cornell U 1906) Urbana, Ill.
Instructor in Geology, University of Illinois
- Charles Russ Richards F 1911*† (Nebraska CF 1897) Urbana, Ill.
Professor of Mechanical Engineering, University of Illinois
- Burt Ransom Rickards F 1911 Urbana, Ill.
Associate Professor of Municipal and Sanitary Dairying, University of Illinois
- Ethel Ricker U 1904 Urbana, Ill.
- Nathan Clifford Ricker CF 1903*† Urbana, Ill.
Professor of Architecture, University of Illinois
- Henry Lewis Rietz CF 1903* (Cornell G 1902) Urbana, Ill.
Assistant Professor of Mathematics, University of Illinois
- Charles Trescott Ripley U 1909 Oak Park, Ill.
- Ruric Creegan Roark G 1908 Washington, D. C.
Chemist, Bureau of Chemistry, United States Department of Agriculture
- Shelby Sandfley Roberts F 1908 Louisville, Ky.
Division Engineer of Construction, Illinois Central Railroad
- Charles Jason Robinson U 1909 Rockford, Ill.
- Kendall Edward Robinson U 1910 Manila, P. I.
Surveyor, United States Bureau of Lands
- Ward Reid Robinson U 1906 Chicago, Ill.
City Building Department
- Charles Wesley Rolfe CF 1903*† Urbana, Ill.
Professor of Geology, University of Illinois
- Susan Farley Rolfe G 1909 Evanston, Ill.
(Mrs Horace Graham Butler)
- Frank Louis Roman U 1911 Springfield, Ill.
Chemist, State Highway Laboratory
- Henry Perly Rusk F 1910 (Missouri U 1908) Urbana, Ill.
Associate in Beef Cattle, University of Illinois Experiment Station
- George Silas Russell U 1909 Kansas City, Mo.
Field Engineer for Sewers
- Thomas Arthur Rutherford G 1907 (Pennsylvania G 1907)
Physician, Hillside Home [Clark Summit, Pa.]

George Rutledge	U 1910	Urbana, Ill.
Assistant in Mathematics, University of Illinois		
George Webster Saathoff	U 1906	Joplin, Mo.
Assisitant General Superintendent, Empire District Electric Company		
Edwin William Sanford	U 1906	Scranton, Pa.
Assistant Engineer, Delaware, Lackawanna and Western Railway		
Thomas Edmund Savage	F 1907*	Urbana, Ill.
Assistant Professor of Geology, University of Illinois		
George Pillsbury Sawyer	U 1911	Chicago, Ill.
With General Electric Company		
Alvin Louis Schaller	U 1907	Wellsville, N. Y.
Chief Draftsman, McEwen Brothers		
Edward John Schell	U 1911	Kansas City, Mo.
Civil Engineer, Waddell and Harrington		
Edward Charles Schmidt	F 1907*	Urbana, Ill.
Professor of Railway Engineering, University of Illinois		
Herman Albert Scholz	U 1907	Burlington, Ia.
William Frederick Schulz	F 1908*	Urbana, Ill.
Assistant Professor of Physics, University of Illinois		
Ramon Schumacher	U 1909	Kansas City, Mo.
With Howe and Hoit		
Samuel Walker Shattuck	CF 1903*†	Urbana, Ill.
Comptroller and Professor of Mathematics, University of Illinois		
Eugene Wesley Shaw	F 1910*	Urbana, Ill.
Assistant Geologist in Co-operative Survey		
James Byrnie Shaw	F 1911	Urbana, Ill.
Assistant Professor of Mathematics, University of Illinois		
James William Shaw	U 1908	New York City
Engineer, Allis-Chalmers Company		
James Ricketts Shinn	U 1904	Nampa, Ida.
Retired		
John Earl Shoemaker	U 1905	Pueblo, Col.
With Pueblo Rocky Ford Irrigation Company		
Glenn Alfred Shook	F 1911 (Purdue F 1911)	Urbana, Ill.
Instructor in Physics, University of Illinois		
Frank Kay Shrader	U 1909	Chicago, Ill.
Statistician, N. W. Halsey and Company		
Harold Hoyt Simmons	U 1909	Chicago, Ill.
On Editorial Staff, Railway Age Gazette		
Charles Herschel Sisam	F 1906* (Cornell G 1904)	Urbana, Ill.
Assistant Professor of Mathematics, University of Illinois		
Willis Appleford Slater	U 1906	Urbana, Ill.
First Assistant, Engineering Experiment Station, University of Illinois		
Edwin Raymond Smith	U 1905 (Wisconsin CF 1907)	State College, Pa.
Assistant Professor of Mathematics, Pennsylvania State College		
Frank Smith	CF 1903*	Urbana, Ill.
Associate Professor of Zoology, University of Illinois		

George McPhail Smith	F 1906	Urbana, Ill.
Associate in Chemistry, University of Illinois		
Kenneth Gardner Smith	U 1905	Milwaukee, Wis.
Extension Representative, University of Wisconsin		
Louie Henry Smith	F 1907*	Urbana, Ill.
Professor of Plant Breeding, University of Illinois		
Paul Ardell Smith	U 1911	DeKalb, Ill.
Draftsman, American Steel and Wire Company		
John McBeath Snodgrass	F 1908	Urbana, Ill.
Assistant Professor of Steam Engineering, University of Illinois		
Bartholomew John Spence	F 1907	Grand Forks, N. D.
Assistant Professor of Physics, University of North Dakota		
John Clyde Spittler	U 1907	Montrose, Ill.
Farmer		
Jacob Leander Stair	U 1908	Chicago, Ill.
Salesman, National X-Ray Reflector Company		
Howard Russell Stanford	U 1908	Chatsworth, Ill.
Farmer		
Joel Stebbins	CF 1903* (Nebraska G 1899)	Urbana, Ill.
Assistant Professor of Astronomy, University of Illinois		
Milton Frederick Stein	U 1909	Chicago, Ill.
Herbert Coles Stephens	U 1908	Sycamore, Ill.
Edward Beattie Stephenson	U 1909	Grand Forks, N. D.
Instructor in Physics, University of North Dakota		
Harold Wilson Stewart	U 1909	Urbana, Ill.
Assistant in Soil Survey, University of Illinois		
Robert Stewart	F 1908*	Logan, Utah
Assistant Professor of Chemistry, Utah College		
William Warren Stifler	F 1909	New York City
Assistant in Physics, Columbia University		
Harry Harkness Stoek	F 1910	Urbana, Ill.
Professor of Mining Engineering, University of Illinois		
Ellis Bagley Stouffer	G 1910	Urbana, Ill.
Instructor in Mathematics, University of Illinois		
Frank Lewis Stout	U 1911	Glenarm, Ill.
Earl Kenneth Strachan	F 1911	Urbana, Ill.
Assistant in Chemistry, University of Illinois		
Halver Rufus Straight	U 1907	Adel, Ia.
Superintendent, Dallas County Brick and Tile Works		
Samuel Wesley Stratton	A 1909*†	Washington, D. C.
Director, National Bureau of Standards		
George Mauritz Strombeck	U 1907	East Moline, Ill.
With Root and Vandervoort Engineering Company		
Walter Gottfried Stromquist	U 1910	Urbana, Ill.
Assistant Engineer, State Water Survey		

Ray Thomas Stull	F 1908	Urbana, Ill.
Associate in Ceramics, University of Illinois		
Arthur Howard Sutherland	F 1910 (Chicago G 1908)	Urbana, Ill.
Associate in Psychology, University of Illinois		
Percy Weston Swern	U 1911	Chicago, Ill.
In Office of State Architect Zimmerman		
Charles Lee Swisher	U 1909	Grinnell, Ia.
Instructor in Physics, Grinnell College		
Arthur Newell Talbot	CF 1903*†	Urbana, Ill.
Professor of Municipal and Sanitary Engineering, University of Illinois		
Kenneth Hammett Talbot	U 1909	Oak Park, Ill.
Assistant Engineer, Universal Portland Cement Company		
John Orlo Taylor	U 1904	Chicago, Ill.
Engineer, F. S. Postel and Company		
Thomas Smith Taylor	F 1909 (Yale G 1909)	Urbana, Ill.
Instructor in Physics, University of Illinois		
John Charles Thorpe	F 1907	Urbana, Ill.
Illinois Motor Car Sales Company		
Edgar Jerome Townsend	CF 1903*	Urbana, Ill.
Dean of the College of Science, University of Illinois		
Henry George Treichel	U 1907	Chicago, Ill.
With Arnold Company		
Perry Fox Trowbridge	G 1905* (Missouri F 1907)	Columbia, Mo.
Professor of Agricultural Chemistry, University of Missouri		
Jon Andreas Udden	G 1906 (Iowa G 1905)	Birmingham, Ala.
Assistant Geologist, Tennessee Coal and Iron Company		
George Athol Van Brunt	G 1909	Morton Park, Ill.
Engineer of Methods, Western Electric Company		
Harley Jones Van Cleave	G 1910	Urbana, Ill.
Assistant in Zoology, University of Illinois		
Jameson VanDervort	U 1911	Chicago, Ill.
With Coats and Burchard Company		
Frank Van Inwagen	U 1908	Hinsdale, Ill.
Secretary, Illinois Engineering Company		
Bernard Carlyle van Pappelendam	U 1910	Harvey, Ill.
Draftsman, Ingalls Shepard Forging Company		
Arthur Gibson Vestal	U 1911	Boulder, Col.
Instructor in Biology, University of Colorado		
Claude L Wagner	U 1910	Cape Girardeau, Mo.
Chemist, Cape Girardeau Portland Cement Company		
Gustaf Eric Wahlin	F 1908	Urbana, Ill.
Instructor in Mathematics, University of Illinois		
Francis William Walker, Jr	G 1911	Beaver Falls, Pa.
Engineer and Assistant Superintendent, Beaver Falls Art Tile Company		
Jesse Jacobson Walledom	U 1909	Chicago, Ill.
Engineer, American Bridge Company		
James Henri Walton, Jr	CF 1903* (Wisconsin F 1907)	Madison, Wis.
Associate Professor of Chemistry, University of Wisconsin		

- Henry Baldwin Ward F 1909*† (Nebraska CF 1897) Urbana, Ill.
Professor of Zoology, University of Illinois
- Edward Wight Washburn F 1908* Urbana, Ill.
Assistant Professor of Chemistry, University of Illinois
- Leslie Abram Waterbury G 1905 Tucson, Ariz.
Professor of Civil Engineering, University of Arizona
- Floyd Rowe Watson CF 1903* (Cornell G 1901) Urbana, Ill.
Assistant Professor of Physics, University of Illinois
- Drury Lee Weatherhead U 1908 Bozeman, Mont.
Instructor in Chemistry, Montana College of Agriculture
- Samuel Harvey Webster U 1906 Kingston, R. I.
Professor of Civil Engineering, Rhode Island State College
- Paul Smith Welch G 1911 Urbana, Ill.
Fellow in Zoology, University of Illinois
- Miriam Ursula Welles G 1904 Salt Lake City, Utah
(Mrs G J Reeves) Collaborator, United States Bureau of Entomology
- Newton Alonzo Wells F 1909 Urbana, Ill.
Professor of Architectural Decoration, University of Illinois
- Edgar I Wenger F 1909 Regina, Sask.
Consulting Engineer
- Carl Joseph West F 1909 (Ohio State U 1908) Columbus, Ohio
Assistant Professor of Mathematics, Ohio State University
- Arthur Wayne Wheeler U 1911 Gary, Ind.
Draftsman, American Bridge Company
- Edmund Burke Wheeler U 1905 New York City
Telephone Engineer, Western Electric Company
- Wilfred Forest Wheeler F 1908 (Kansas U 1908)
(Deceased 1909)
- Earl Archibald White U 1908 Madison, Wis.
Graduate Student, University of Wisconsin
- James McLaren White CF 1903 Urbana, Ill.
Professor of Architectural Engineering, University of Illinois
- Herbert Lucius Whittemore F 1910 Watertown, Mass.
Government Testing Laboratory
- Burton B Wilcox U 1904 Chicago, Ill.
Chemist, State Food Commission Laboratory
- Carroll Carson Wiley U 1904 Urbana, Ill.
Instructor in Civil Engineering, University of Illinois
- Charles Julius Willard U 1910 Bradford, Kan.
Farmer
- Clement Clarence Williams U 1907 (Colorado F 1908) Boulder, Col.
Assistant Professor of Civil Engineering, University of Colorado
- Djalma Downey Williams U 1907 Wichita, Kan.
Assistant Engineer, Missouri, Kansas and Texas Railway
- Elmer Howard Williams F 1909 Urbana, Ill.
Associate in Physics, University of Illinois

Ernest Julius Wilszynski	F 1907 (California F 1902)	Chicago, Ill.
Professor of Mathematics, University of Chicago		
Margaret Boynton Windsor	A 1909 (Cornell U 1895)	Urbana, Ill.
(Mrs Phineas Lawrence Windsor)		
James Renwick Withrow	F 1906 (Ohio 1907)	Columbus, Ohio
Associate Professor of Chemistry, Ohio State University		
John Emerson Wolf	U 1909	Whiting, Ind.
Supervisor of Manual Training		
Henry Clay Wood	U 1910	DeKalb, Ill.
Assistant Cashier, Commercial Trust and Savings Bank		
Harry Ray Woodrow	G 1911	New York City
Electrical Engineer, New York Edison Company		
Thomas Judson Wright, Jr	U 1909	Charlotte, N. C.
Assistant to Chief Engineer, Piedmont and Northern Lines		
August Frank Daniel Wussow	U 1909	Hospital, Ill.
Chemist, State Psychopathic Institute		
Trygve D Yensen	U 1907	Urbana, Ill.
Assistant, Engineering Experiment Station, University of Illinois		
John Wesley Young	F 1908*† (Cornell G 1901)	Hanover, N. H.
Professor of Mathematics, Dartmouth College		
Charles Zeleny	F 1909* (Minnesota U 1898; Indiana F 1909)	
Associate Professor of Zoology, University of Illinois		[Urbana, Ill.]
James Zetek	U 1911	Ancon, C. Z.
Entomologist, Isthmian Canal Commission		
William Douwes Zoethout	F 1908*	Chicago, Ill.

CASE CHAPTER

CASE SCHOOL OF APPLIED SCIENCE, CLEVELAND, OHIO

Charter Dated October 1, 1904 Chapter Installed November 21, 1904

HISTORICAL SKETCH

In the spring of 1904, through the efforts of Charles S. Howe, President of Case School of Applied Science, application was made for the establishment of a chapter of the Society of the Sigma Xi at Case School. The charter was granted under the date of October 1, 1904, for the "Case Chapter," no chapter letter being assigned. The Chapter was installed by a formal meeting for organization, held on November 21, 1904, there being sixteen members, all from the faculty of Case School of Applied Science.

Elections to active membership were made from the faculty, and from the senior class only at the end of the senior year. In the six years, from 1904 to 1910, sixty-three seniors have been elected, being thirteen per cent of the eligible seniors. From the alumni there have been elected forty-two; and faculty elections and transfers from other Chapters make the total Chapter enrollment one hundred and forty. In January, 1911, there were twenty-two active faculty members.

In the six and one-half years of Chapter life, there have been held thirty-six meetings, at sixteen of which there were scientific papers and discussions. The annual addresses, given at Commencement time, have been by Edward C. Orton, State Geologist of Ohio; President C. R. Van Hise of the University of Wisconsin; Doctor H. W. Wiley, Chief Chemist of the United States Department of Agriculture; Doctor L. O. Howard, Chief of the United State Bureau of Entomology; Doctor Dayton C. Miller of our Department of Physics; and Professor A. A. Michelson of the University of Chicago.

D. C. M.

OFFICERS FOR 1911-12

President.....	DAYTON CLARENCE MILLER
Vice-President.....	THEODORE MOSES FOCKE
Recording Secretary.....	NORMAN ARMIN DUBOIS
Corresponding Secretary.....	JOHN HARLAND NELSON
Treasurer.....	CLARENCE LEROY EDDY
Councilor.....	CHARLES SUMNER HOWE

MEMBERSHIP ROLL

Robert Rowell Abbott	F 1907	Cleveland, Ohio
Metallurgical Engineer, The Peerless Motor Car Company		
Comfort Avery Adams	F 1905*†	Cambridge, Mass.
Professor of Electrical Engineering, Harvard University		

Harry Fleishman Affelder	A 1909	Allegheny, Pa.
Sales Department, Allis-Chalmers Company		
Harry Lee Allen	A 1907	Cleveland, Ohio
Mechanical Engineer, The Bruce-Macbeth Engine Company		
William Ambler	CF 1904 (Cornell U 1900)	Cleveland, Ohio
The Ambler Realty Company		
Samuel Sweigart Baker	U 1905	Pittsburgh, Pa.
Efficiency Engineer, Jones and Laughlin Steel Company		
Elmer Bark	U 1906	Philadelphia, Pa.
Instructor in Mechanical Engineering, University of Pennsylvania		
Frederick Arthur Barnes	U 1908	Cleveland, Ohio
Consulting Engineer, The George S. Rider Company		
Arthur Barrett	U 1908	McDonald, Pa.
Engineer, B. D. Tillinghast Company		
Edwin Ormond Barstow	A 1908	Midland, Mich.
Technical Chemist, The Dow Chemical Company		
Burke Morgan Baxter	U 1906 (Pennsylvania F 1906)	Cleveland, Ohio
Mechanical Engineer with H. B. Prather, Consulting Engineer [Ohio]		
Cliff Roland Bell	U 1911	Ridgway, Pa.
Draftsman, Ridgway Dynamo and Engine Company		
Harrison Merwin Benham	U 1911	Newark, N. J.
New York Telephone Company		
Charles Henry Benjamin	CF 1904*†	LaFayette, Ind.
Dean, Schools of Engineering, Purdue University		
William Sanford Bidle	A 1905	Cleveland, Ohio
Manager, Turnbuckle Department, Cleveland City Forge and Iron Company		
Emmet Hamilton Birney	A 1905	Pittsburgh, Pa.
Superintendent, Rolling Mills, Jones and Laughlin Steel Company		
Edward C Bixel	U 1910	Newark, N. J.
The New York Telephone Company		
Homer Samuel Black	A 1909	Cleveland, Ohio
Superintendent, Tungsten Electric Lamp Company		
Arthur Frederick Blaser	U 1905	Cleveland, Ohio
Civil Engineer, Wilbur J. Watson, Consulting Engineer		
William Edward Blaser	U 1909	Cleveland, Ohio
Draftsman, Lake Shore and Michigan Southern Bridge Department		
Carl Edwin Bliss	U 1909	Cleveland, Ohio
Inspector of Materials, Union Pacific Railway		
Thomas Earl Bloxham	U 1909	Rochester, N. Y.
Engineering Department, New York Telephone Company		
John Charles Boertlein	U 1907	Cleveland, Ohio
Draftsman, Variety Iron and Steel Works Company		
August Jacob Bohrer	U 1909	Cleveland, Ohio
Draftsman, Variety Iron and Steel Works Company		
Chester Kingsley Brooks	U 1908 (Yale U 1906)	Cleveland, Ohio
Engineer, The National Malleable Castings Company		

Charles Arthur Cadwell	CF 1904	Cleveland, Ohio
Assistant Professor of Mining Engineering, Case School of Applied Science		
Paul Whittier Carleton	F 1909	Madison, Wis.
Instructor in Chemistry, University of Wisconsin		
Allan Wadsworth Carpenter	A 1908	New York City
Engineer of Structures, New York Central Railway		
Sellers McKee Chandler	A 1907	Pittsburgh, Pa.
President, The Chandler-Boyd Supply Company		
Charles Henry Christian	U 1908	Cleveland, Ohio
Chief Draftsman, The Cleveland Engineering Company		
Frank Neville Claffin	U 1906	Ragland, Ala.
Construction Engineer, Atlantic and Gulf Portland Cement Company		
John Hugh Clemmer	U 1911	New York City
Salesman, Ludowice-Celadon Company, New York		
Maurice Coburn	A 1909	St. Louis, Mo.
Principal Assistant Engineer, Vandalia Railroad		
Frank Mason Comstock	CF 1904*†	Cleveland, Ohio
Professor of Descriptive Geometry, Case School of Applied Science		
Samuel Richard Cook	CF 1904* (Nebraska G 1898)	San Jose, Cal.
Charles William Coppersmith	U 1905	Cleveland, Ohio
Instructor in Engineering, Case School of Applied Science		
Edward Ostrom Cross	A 1905	Fostoria, Ohio
Superintendent, Fostoria Glass Specialty Company		
David Thomas Croxton	A 1906	Cleveland, Ohio
President, Cleveland Furnace Company		
Henry Baldwin Dates	F 1905 (Colorado CF 1905)	Cleveland, Ohio
Professor of Electrical Engineering, Case School of Applied Science		
Dwight Combs DeWeese	U 1911	New Castle, Pa.
Assistant Engineer, Pennsylvania Railroad Company		
Herbert Henry Dow	A 1905	Midland, Mich.
General Manager, The Dow Chemical Company		
Robert Warren Drake	U 1908	Chicago, Ill.
Electrical Engineer, International Harvester Company		
Norman Armin Dubois	F 1907*	Cleveland, Ohio
Dean, Professor of Chemistry, Western Reserve University		
Richard Gustavus Dukes	CF 1904 (Cornell U 1896)	Lafayette, Ind.
Professor of Mechanics, Purdue University		
Clarence Leroy Eddy	F 1909	Cleveland, Ohio
Assistant Professor of Engineering, Case School of Applied Science		
Alvin Bart Einig	U 1907	West Allis, Wis.
Engineering Apprentice, Allis-Chalmers Company		
Harvey William Fay	U 1909	Cleveland, Ohio
National Electric Lamp Association		
Fred William Feihl	U 1909	Cleveland, Ohio
Engineer, National Carbon Company		
Robert Heywood Fernald	F 1908†	Cleveland, Ohio
Professor of Mechanical Engineering, Case School of Applied Science		

Albert Finck	CF 1904 Chemist	Cleveland, Ohio
Theodore Moses Focke	CF 1904* Professor of Mathematics, Case School of Applied Science	Cleveland, Ohio
Orrin Fred French (Deceased)	A 1906	
Adolph Jacob Friedman	U 1909 Osborn Engineering Company	Cleveland, Ohio
Victor Charles Fugman	U 1910 Engineer, Nelson Jenks Coal Company	Land Coulee, Mont.
Charles Herman Fulton	F 1911* (Columbia A 1905) Professor of Metallurgy, Case School of Applied Science	Cleveland, Ohio
Oscar Louis Gaede	U 1908 Concrete and Steel Designer	Cleveland, Ohio
John Adams Gann	U 1911 Assistant, Analytical Chemistry, Massachusetts Institute of Technology	Boston, Mass.
Charles Goffing	A 1909 Mechanical Engineer, City Water Department	Cleveland, Ohio
Fred Milo Graham	A 1909 Division Engineer, Pennsylvania Lines West of Pittsburgh	Ft. Wayne, Ind.
Thomas Griswold, Jr	A 1905 Bartsow and Griswold, Chemists and Engineers	Midland, Mich.
William George Haldane	A 1907 Associate Professor of Metallurgy and Assaying, Colorado School of Mines	Golden, Col.
George Herbert Hall	A 1909 Secretary, Cleveland Rock Drill Company	Cleveland, Ohio
Earl Clarence Harsh	U 1905 Sales Department, Allis-Chalmers Company	Milwaukee, Wis.
Charles Burr ridge Hawley	U 1908 Assistant Master Mechanic, Cleveland Cliffs Iron Company	Ishpeming, Mich.
Fred Harvey Heath	F 1910 (Yale G 1909) Instructor in Chemistry, Wesleyan University	Middletown, Conn.
John Gordon Henninger	U 1909 National Electric Lamp Association	Cleveland, Ohio
Frederick Martin Hibben	U 1907 Superintendent, The Cleveland Illuminating Company	Cleveland, Ohio
Hugh Gerald Hilton	U 1910 Federal Furnace Company	South Chicago, Ill.
Paul Milton Hinsdale	U 1908 Engineer, New York Telephone Company	Newark, N. J.
Richard James Hoddinott	U 1911 Assistant Professor of Chemistry and Physics, Baldwin University	Berea, Ohio
Charles David Hodgman	F 1909 Instructor in Physics, Case School of Applied Science	Cleveland, Ohio
Robert Hoffman	A 1908 Chief Engineer, Department of Public Service	Cleveland, Ohio

Charles Sumner Howe	CF 1904*†	Cleveland, Ohio
President, Case School of Applied Science		
Harry Sloan Hower	A 1903*	Pittsburgh, Pa.
Associate Professor of Physics, Carnegie Technical Schools		
Russell Huff	A 1907	Detroit, Mich.
Chief Engineer, Packard Motor Car Company		
Frank Erastus Hulett	A 1908	Cleveland, Ohio
Engineer, Wellman-Seaver-Morgan Company		
Howard Lyman Ingersoll	A 1911	New York City
Assistant to General Manager, New York Central and Hudson River Railroad		
Orlando W Irwin	U 1906	Detroit, Mich.
Designing Engineer, Trussed Concrete Steel Company		
William Henry Kaiser	U 1911	St. Louis, Mo.
Instructor, Mechanical Engineering, Washington University		
Harry John Kappler	U 1909	Cleveland, Ohio
Mechanical Rubber Comany		
Sidney W Katzenstein	U 1908	Gladstone, Mich.
Chemist, Cleveland Cliffs Iron Company		
Harry Livingston Keetch	U 1911	East Pittsburgh, Pa.
Graduate Student Course, Westinghouse Electric Company		
Edwin Crawford Kemble	U 1911	Pittsburgh, Pa.
Assistant Instructor in Physics, School of Applied Science		
Thomas Seth Kemble	A 1909	Cleveland, Ohio
Experimental Department, Peerless Motor Car Company		
Robert Kernohan	A 1905	Pittsburgh, Pa.
Assistant General Manager, Jones and Laughlin Steel Company		
Fred Henry Kindl	A 1905	Pittsburgh, Pa.
Consulting Engineer		
Zenas Clyde Kline	U 1910	Fostoria, Ohio
Cost Accountant, Fostoria Glass Specialty Company		
Arthur Martin Klingman	U 1909	Cleveland, Ohio
Efficiency Engineer, Adams-Bagnall Electric Company		
Elmer Louvestus Knoedler	U 1905	Gloucester City, N. J.
Assistant to General Manager, Welsbach Company		
Cyrus Bosworth Kurtz	U 1906	Cleveland, Ohio
Engineer with C. E. F. Ahlm		
John Williams Langley	CF 1904*†	Ann Arbor, Mich.
Emeritus Professor of Electro-Metallurgy, Case School of Applied Science		
Ralph Bell Lynn	U 1909	Lakewood, Ohio
The National Carbon Company		
Charles Frederic Mabery	CF 1904*†	Cleveland, Ohio
Emeritus Professor of Chemistry, Case School of Applied Science		
Louis Austin Magee	U 1909	Tarentum, Pa.
Pittsburgh Plate Glass Company		
James Caldwell McCullough	U 1906	Oberlin, Ohio
Associate Professor of Chemistry, Oberlin College		

Charles Rex McNiece	U 1911	Mt. Vernon, Ohio
Engineer, Mt. Vernon Bridge Company		
Kenneth Llewellyn Meredith	U 1907	Akron, Ohio
President the B. and M. Machine Company		
George Schambs Merrill	A 1907	Cleveland, Ohio
Assistant to Chief Engineer, National Electric Lamp Association		
Ezekiel Jones Miles	U 1909	Detroit, Mich.
Consulting Engineer, Studebaker Corporation		
Dayton Clarence Miller	CF 1904*†	Cleveland, Ohio
Professor of Physics, Case School of Applied Science		
Harlan Dewey Miller	A 1909	Albany, N. Y.
Senior Bridge Designer, State of New York		
Frank Howard Neff	CF 1904	Cleveland, Ohio
Professor of Civil Engineering, Case School of Applied Science		
John Harland Nelson	F 1910 (Illinois G 1909)	Cleveland, Ohio
Assistant Professor of Mechanics, Case School of Applied Science		
Charles Matthias Nissen	A 1909	Chicago, Ill.
Patent Attorney		
Paul Elfred Norris	U 1907	Detroit, Mich.
District Manager, U. S. Light and Heating Company		
Robert Edgar Noyes	F 1907 (Nebraska G 1904)	Brooklyn, N. Y.
Instructor in Applied Electricity, Pratt Institute		
Ernest Linwood Ohle	U 1904 (Iowa F 1906)	St. Louis, Mo.
Professor of Mechanical Engineering, Washington University		
John Emanuel Olivenbaum	F 1910	Cleveland, Ohio
Instructor in Steam Engineering, Case School of Applied Science		
Charles Thomas Olmsted	U 1908	Cleveland, Ohio
Instructor in Civil Engineering, Case School of Applied Science		
Otto Ernest Osthoff	A 1905	Chicago, Ill.
Vice-President, H. M. Byllesby and Company		
James Frank Palecek	U 1906	
(Deceased)		
Edgar Long Payne	U 1907	Brooklyn, N. Y.
District Engineer, The New York Telephone Company		
Roscoe Gaylord Phelps	U 1906	Conneaut, Ohio
Conneaut Mazda Lamp Works		
Gurley Sloan Phelps	A 1909	Sandusky, Ohio
Junior Engineer, U. S. Engineer's Office		
Philip Boynton Prentice	U 1910	Cleveland, Ohio
Milton Baxter Punnett	A 1905	Rochester, N. Y.
Superintendent, Eastman Kodak Company		
Ralph Leroy Quass	U 1909	New York City
Electrical Engineer, Western Electric Company		

- William Osborne Quayle A 1905 Wilmington, Del.
Chemist, E. I. DuPont de Nemours Powder Company
- Clarence Erle Reid F 1907 Agricultural College, Miss.
Professor of Electrical Engineering
- Arthur Boardman Roberts U 1907 Cleveland, Ohio
Engineer, The American Fork and Hoe Company
- Harte Langdon Rowe U 1908 Corry, Pa.
J. W. and A. P. Howard Company
- Lewis Dow Rowell F 1911 Lafayette, Ind.
Associate Professor of Electrical Engineering, Purdue University
- Alexander Russell U 1909 Niagara Falls, N. Y.
Publicity Manager, U. S. Light and Heating Company
- Verne Warren Shear U 1906 Wilkinsburg, Pa.
Commercial Engineer
- Frederick Hubbard Sibley F 1907 University, Ala.
Professor of Mechanical Engineering, University of Alabama
- Otto Julius Sieplein A 1906 Grove City, Pa.
Professor of Chemistry, Grove City College
- Warner Mason Skiff A 1911 Cleveland, Ohio
Assistant Manager, National Electric Lamp Association
- Albert William Smith CF 1904*† Cleveland, Ohio
Professor of Metallurgy, Case School of Applied Science
- Robert Earle Snyder F 1907 (Michigan G 1907) Cleveland, Ohio
Instructor in Physics, Case School of Applied Science
- Arthur Coe Spencer A 1905*† Washington, D. C.
Geologist, U. S. Geological Survey
- Robert Henry Spooner U 1910 Cleveland, Ohio
Experimental Department, The Peerless Motor Car Company
- Harry William Springsteen A 1905* Cleveland, Ohio
Associate Professor of Physics, Western Reserve University
- Everett Adams Squire U 1911 Eureka, Utah
Centennial Eureka Mining Company
- Cady Staley F 1907† (Union F 1888) Cleveland, Ohio
Professor of Political Economy, Case School of Applied Science
- Leslie Dalrymple Stair A 1906 Chicago, Ill.
Engineer, Federal Furnace Company
- Frank Amos Steele U 1910 Akron, Ohio
Chemist, The Goodyear Tire and Rubber Company
- Arthur Henry Steuer U 1910 Cleveland, Ohio
Engineering Corps, Pennsylvania Railroad
- William Arthur Stocking U 1906 Cleveland, Ohio
With Hubbell and Benes, Architects
- Charles John Strosacker U 1906 Midland, Mich.
Chemist, The Dow Chemical Company
- William Jordan Sweetser F 1911 Cleveland, Ohio
Assistant Professor Mechanical Engineering, Case School of Applied Science

Louis Nelson Talkes	U 1911	New York City
Assistant Manager, New York Branch U. S. Light and Heating Company		
Paul Folsom Thayer	U 1906	Youngstown, Ohio
Secretary and Treasurer, Youngstown Armature and Construction Company		
Frank Edward Treat	A 1911	Conneaut, Ohio
Superintendent, Conneaut Mazda Lamp Works		
Frank Robertson Van Horn	CF 1904*	Cleveland, Ohio
Professor of Geology and Mineralogy, Case School of Applied Science		
William Reed Veazey	F 1907	Cleveland, Ohio
Assistant Professor of Chemistry, Case School of Applied Science		
Lafayette Denton Vorce	A 1911	Wyandotte, Mich.
General Superintendent, Wyandotte Southern Railroad Company		
Fred Hale Vose	F 1911	Cleveland, Ohio
Assistant Professor Mechanical Engineering, Case School of Applied Science		
David Gray Waggoner	U 1910	Denver, Col.
Denver Gas and Electric Light Company		
Roy Clarence Wallis	U 1910	Midland, Mich.
Research Chemist, Dow Chemical Company		
Harry True Welty	A 1909	New York City
Engineer, New York Central and Hudson River Railroad		
Harry George Welfare	U 1905	Cleveland, Ohio
Engineer, National Carbon Company		
Edwin Bennett Wheeler	F 1906	Pottsdam, N. Y.
Professor of Physics, Clarkson School of Technology		
Eli White	U 1905	Detroit, Mich.
Estimator, Trussed Concrete Steel Company		
Arthur Victor Wilker	U 1909	Cleveland, Ohio
Chemist, National Carbon Company		
Edward Hall Williams	A 1906	Hokendauqua, Pa.
Superintendent, Thomas Iron Company		
Delonza Tate Wilson	CF 1904*	Cleveland, Ohio
Assistant Professor of Mathematics and Astronomy, Case School		
Robert Arthur Worstall	A 1905	Chicago, Ill.
Chemist, Paint and Varnish Specialist		
Reginald Ashmun Wright	A 1909	Pottsville, Pa.
Chief Draftsman, Philadelphia and Reading Coal and Iron Company		
Albert William Zesiger	A 1907	Cleveland, Ohio
Engineer, Wm. H. Evers Engineering Company		

INDIANA CHAPTER

INDIANA UNIVERSITY, BLOOMINGTON, INDIANA

Charter Dated October 1, 1904

Chapter Installed, 1904

HISTORICAL SKETCH

During the fall of 1903, the Sigma Xi men of the faculty of Indiana University considered the advisability of petitioning the Council for a chapter at that institution and a petition was drawn up and presented to the Council at about the time of the St. Louis meeting of the American Association for the Advancement of Science. The charter was granted the first of October, 1904.

Since its organization the Society has had a healthy growth and has been of value in many ways to the scientific departments of the University. Its numbers have been increased gradually until now there are forty resident and thirty-four non-resident members.

Eight or nine scientific meetings are held each year. These meetings fall into three general groups: First, those in which the paper is a summary of recently completed research of the member; second, a discussion of the present status and recent advances in the knowledge of some limited field of science in which a member is working; third, general meetings, of which there are usually two, one devoted to the greater advancements of science during the year in the various departments and the other is turned over to the younger members, the candidates for advanced degrees giving ten or fifteen minute discussions of the researches upon which their theses are based. These general meetings are interesting and especially well attended.

A few members of the senior class who have already demonstrated their ability to do research work and the probability of their continuing it are elected early in the year in order that they may have as much advantage of the meetings as possible. These are usually men who complete the work for the bachelor's degree at the end of the fall or winter quarter, ending Christmas and the last week in March, respectively.

Regular membership application blanks similar to those in use by the Cornell Chapter have been adopted.

K. P. W.

PUBLICATIONS

The Society of the Sigma Xi Indiana Chapter. Officers and Program for 1906 (Including list of members) pp. 14.

The Society of the Sigma Xi Indiana Chapter, Officers and Program for 1907 (Including list of members) pp. 8.

The Society of the Sigma Xi Indiana Chapter. List of Officers and Members and Program for 1908.

OFFICERS FOR 1911-12

President.....	JOSHUA WILLIAM BEEDE
Vice-President.....	CLARENCE EARL MAY
Recording Secretary.....	FERNANDUS PAYNE
Corresponding Secretary.....	MARY THERESA HARMAN
Treasurer.....	FRANK CURRY MATHERS
Councilor.....	CARL H. EIGENMANN

MEMBERSHIP ROLL

Henry Rihl Alburger	F 1908* (Pennsylvania U 1902)	Indianapolis, Ind.
Professor of Pathology, Indiana University		[Ind.]
Robert Judson Aley	F 1905*†	Orono, Me.
President, University of Maine		
Frank Marion Andrews	F 1904*	Bloomington, Ind.
Associate Professor of Botany, Indiana University		
Marie Opperman Andrews (Mrs. F. M.)	G 1911	Bloomington, Ind.
Graduate Student of Botany, Indiana University		
George Frederick Arps	F 1910* (Illinois F 1910)	Urbana, Ill.
Assistant Professor of Psychology, University of Illinois		
Arthur Mangum Banta	G 1905*	Cold Spring Harbor, L. I., N. Y.
Resident Investigator, Carnegie Experiment Station		
Joshua William Beede	CF 1904*† (Kansas G 1897)	Bloomington, Ind.
Associate Professor of Geology, Indiana University		
John Andrew Bergstrom	CF 1904*	
(Deceased 1910)		
Caroline Anna Black	G 1909	Durham, N. H.
Instructor in Botany, New Hampshire College		
Willis Stanley Blatchley	A 1905*†	Indianapolis, Ind.
Henry Clay Brandon	G 1905*	Portland, Ore.
Director of Industrial Education		
Joseph Valentine Breitwieser	U 1906	Colorado Springs, Colo.
Professor of Psychology, Colorado College		
William Conrad Brooks	G 1909	Evansville, Ind.
Superintendent, Hoosier Storage Battery Company		
Harry Bates Brown	G 1907	Agricultural College, Miss.
Professor of Botany, Mississippi Agricultural and Mechanical College		
Oliver W Brown	F 1906* (Cornell G 1898)	Bloomington, Ind.
Associate Professor of Chemistry, Indiana University		
William Lowe Bryan	CF 1904*†	Bloomington, Ind.
President, Indiana University		
Morley Albert Caldwell	C 1905	Louisville, Ky.
Professor of Philosophy, University of Louisville		
Robert Daniel Carmichael	F 1911	Bloomington, Ind.
Assistant Professor of Mathematics, Indiana University		
Campbell Colon Carpenter	U 1906	Niagara Falls, N. Y.
Chief Chemist, United States Light and Heating Company		
Wilbur Adelman Cogshall	F 1906*	Bloomington, Ind.
Associate Professor of Astronomy, Indiana University		

- Edgar Roscoe Cumings CF 1904*† (Union G 1897) Bloomington, Ind.
Professor of Geology, Indiana University
- James Nimrod Currie G 1907 Storrs, Conn.
Dairyman, Storrs Agricultural College
- Schuyler Colfax Davisson F 1905* Bloomington, Ind.
Professor of Mathematics, Indiana University
- David Abbot Drew F 1910* Bloomington, Ind.
Instructor in Mechanics and Astronomy, Indiana University
- John Charles Duncan U 1906* Cambridge, Mass.
Instructor in Astronomy, Harvard University
- John Benjamin Dutcher F 1908 Bloomington, Ind.
Assistant Professor of Physics, Indiana University
- Carl H Eigenmann CF 1904*† Bloomington, Ind.
Dean of Graduate School, Professor of Zoology, Indiana University
- Rosa Smith Eigenmann U 1905 Bloomington, Ind.
(Mrs C H Eigenmann) Editor in Zoology, Indiana University
- Max Mapes Ellis U 1906* Boulder, Col.
Instructor in Biology, University of Colorado
- Marion (Durbin) Ellis G 1909 Boulder, Col.
(Mrs M M Ellis) Graduate Student, University of Colorado
- Barton Warren Everman A 1905*† Washington, D. C.
Bureau of Fisheries
- Lemuel William Flamulener F 1907* New York City
City Board of Health
- Arthur Lee Foley CF 1904* (Cornell G 1897) Bloomington, Ind.
Professor of Physics, Indiana University
- Eupha May Foley G 1911 Bloomington, Ind.
Teaching Fellow in Psychology, Indiana University
- Albert Frederick Ottmar Germann G 1909 Geneva, Switzerland
Student, University of Geneva
- Charles Grandy G 1909 Chicago, Ill.
Rush Medical School
- Frank Cook Greene U 1907 Rolla, Mo.
Geological Survey
- Melvin Everett Haggerty F 1910 Bloomington, Ind.
Assistant Professor of Psychology, Indiana University
- Walter Louis Hahn G 1907*
(Deceased)
- Ulysses Sherman Hanna F 1905* (Pennsylvania G 1900) Bloomington, Ind.
Associate Professor of Mathematics, Indiana University [Ind.]
- Mary Theresa Harman G 1910 Bloomington, Ind.
Fellow in Zoology, Indiana University
- Charles Haseman G 1906* Reno, Nev.
Professor of Mathematics, University of Nevada
- John Diedrich Haseman G 1907 New York City
Fellow in Zoology, Columbia University

Joseph Henry Haseman	G 1905	Linton, Ind.
Superintendent, Public Schools		
Leonard Haseman	G 1906 (Missouri F 1910)	Columbia, Mo.
Instructor in Entomology, University of Missouri		
William Peter Haseman	F 1905 (Pennsylvania G 1907)	Norman, Okla.
Professor of Physics, University of Oklahoma		
Robert Hessler	A 1905	Logansport, Ind.
Physician		
Cassius Eugene Hiatt	G 1906 (Pennsylvania G 1908)	Bloomfield,
Westinghouse Electric Lamp Company		[N. J.]
Edgar Clayton Hinkle	U 1905	Chicago, Ill.
Teacher of Mathematics, Chicago Teachers' College		
John Alfred Hodge	G 1910	Kansas City, Kan.
Assistant, Sumner High School		
William Edward Howard	F 1906	Guthrie, Okla.
Professor of Mathematics, Methodist University of Oklahoma		
Mason Edward Hufford	G 1911	Bloomington, Ind.
Teaching Fellow in Physics, Indiana University		
Roscoe Raymond Hyde	G 1908*	Terre Haute, Ind.
Assistant Professor of Zoology, State Normal School		
Dennis Emerson Jackson	G 1903*	St. Louis, Mo.
Associate in Pharmacology, Washington University Medical School		
Edward William Koch	G 1909	Chicago, Ill.
Rush Medical School		
Ira Elver Lee	G 1911	Bloomington, Ind.
Teaching Fellow in Chemistry, Indiana University		
Isaac McKinney Lewis	G 1906	Austin, Tex.
Instructor in Botany, University of Texas		
Robert Edward Lyons	CF 1904*	Bloomington, Ind.
Professor of Chemistry, Indiana University		
Ernest Hiram Lindley	CF 1904*†	Bloomington, Ind.
Professor of Philosophy and Psychology, Indiana University		
Leslie MacDill	G 1911	Bloomington, Ind.
Teaching Fellow in Mathematics, Indiana University		
Wilfred Hamilton Manwaring	F 1905	New York City
Rockefeller Institute		
Walter Ross Marriott	U 1906 (Pennsylvania G 1908)	Swarthmore,
Assistant Professor of Mathematics, Swarthmore College		[Pa.]
Thomas Edward Mason	G 1911	Bloomington, Ind.
Teaching Fellow in Mathematics, Indiana University		
Frank Curry Mathers	U 1905*	Bloomington, Ind.
Assistant Professor of Chemistry, Indiana University		
Clarence Earl May	G 1905*	Bloomington, Ind.
Assistant Professor of Chemistry, Indiana University		
Norman Eugene McIndoo	G 1908	Washington, D. C.
Assistant, Bureau of Entomology		

- Seth Eugene Meek A 1905* Chicago, Ill.
Assistant Curator of Zoology, Field Columbian Museum
- Egbert J Miles U 1906* (Chicago G 1906) Ithaca, N. Y.
Instructor in Mathematics, Cornell University
- John Anthony Miller CF 1904*† Swarthmore, Pa.
Professor of Astronomy, Swarthmore College
- Newton Miller G 1906* Worcester, Mass.
Assistant Professor of Biology, Clark College
- Wilford Stanton Miller F 1910 Urbana, Ill.
Assistant in Psychology, University of Illinois
- William J Moenkhaus CF 1904* Bloomington, Ind.
Professor of Physiology, Indiana University
- David Myers Mottier CF 1904* Bloomington, Ind.
Professor of Botany, Indiana University
- Effa (Funk) Muhse G 1908 Washington, D. C.
(Mrs Albert Clark Muhse)
- Burton Dorr Myers CF 1904* (Cornell F 1900) Bloomington, Ind.
Professor of Anatomy, Indiana University
- Alpheus Russel Ness G 1911 Bloomington, Ind.
Teaching Fellow in Chemistry, Indiana University
- Hiromitsu Oi G 1906 Yokohama, Japan
Superintendent of Docks
- Fernandus Payne G 1905 Bloomington, Ind.
Assistant Professor of Zoology, Indiana University
- Alexander Petrunkevitch F 1906* New Haven, Conn.
Assistant Professor of Zoology, Yale University
- Augustus Grote Pohlman F 1905* Bloomington, Ind.
Professor of Anatomy, Indiana University
- Claude Elmer Price G 1905 Toledo, Ohio
Physician
- Rolla Roy Ramsey CF 1904* (Cornell G 1901) Bloomington, Ind.
Associate Professor of Physics, Indiana University
- David Andrew Rothrock F 1905*† Bloomington, Ind.
Professor of Mathematics, Indiana University
- Boyd Ray Sayers U 1906 Depew, N. Y.
Gould Storage Battery Company
- Will Scott U 1907* Bloomington, Ind.
Assistant Professor of Zoology, Indiana University
- George Daniel Schaffer G 1906 East Lansing, Mich.
Experiment Station, Michigan Agricultural College
- Charles William Shannon U 1906 Norman, Okla.
Oklahoma Geological Survey
- Fred Shetterly U 1906 Ithaca, N. Y.
Instructor in Chemistry, Cornell University
- Frederick Lafayette Shinn F 1906* (Wisconsin CF 1907) Eugene, Ore.
Assistant Professor of Chemistry, University of Oregon

Augustus Clyde Shipp	F 1910	Indianapolis, Ind.
Instructor in Pathology, Indiana University Medical College		
Vesto Melvin Slipher	A 1906*	Flagstaff, Ariz.
Astronomer, Lowell Observatory		
Luther Crocker Snider	G 1909	Norman, Okla.
Assistant Director, Oklahoma Geological Survey		
William Thomas Stevens	G 1905	Milwaukee, Wis.
Professor of Educational Psychology, State Normal School		
Vernon Andrew Suydam	F 1907	Princeton, N. J.
Fellow in Physics, Princeton University		
Albert Warrick Thompson	U 1907	Owensville, Ind.
George Ellsworth Thompson	G 1910	Ithaca, N. Y.
Assistant in Physics, Cornell University		
William Motler Tucker	G 1908	Anderson, Ind.
Teacher in High School		
Orin Tugman	G 1906* (Cornell G 1907)	New York City
Engineer, Western Electric Company		
James M Van Hook	F 1906 (Cornell G 1902)	Bloomington, Ind.
Assistant Professor of Botany, Indiana University		
Kenneth Powers Williams	G 1908	Princeton, N. J.
Scholar in Mathematics, Princeton University		
William Logan Woodburn	U 1908	Evanston, Ill.
Instructor in Botany, Northwestern University		
Charles Zeleny	F 1904* (Minnesota U 1898)	Illinois F 1909;
Associate Professor of Zoology, University of Illinois [Urbana, Ill.]		

MISSOURI CHAPTER

UNIVERSITY OF MISSOURI, COLUMBIA, MISSOURI

Charter Dated April 3, 1905

Chapter Installed May 12, 1905

HISTORICAL SKETCH

The records of the Chapter show that the first steps toward organization were taken in the early months of 1904. At the call of Doctor O. M. Stewart (Cornell 1895), the Sigma Xi members then on the faculty met to consider the advisability of petitioning the Society for a charter. It appeared that the time was ripe for such action and accordingly a petition was drawn up and signed by its initiators and other members of the faculty whose names appear upon the charter. This petition received favorable action by the Society, and in March, 1905, the petitioners formed a temporary organization. By-laws were adopted at a meeting on April 3, and on the fourteenth of that month temporary officers were elected. The first annual meeting was held May 10, 1905, at which fifteen faculty members, nine resident graduates, seven undergraduates, and one alumni member were elected. The Chapter was formally installed soon after by Dean F. O. Marvin, Chairman of the Council of the Society, at the home of President and Mrs. A. Ross Hill. Since the organization of the Chapter, twenty-seven faculty members, twenty-five resident graduates, sixty-seven undergraduates, and one alumnus have been elected to membership. The active members number sixty-one at present.

The by-laws of the Chapter provide for at least one meeting each semester at which one or more scientific papers are to be presented. These open meetings have been a means of giving recognition and honor to members for important contributions to science. With a view of making this provision more effective the Chapter, four years ago, entered into an agreement with the Chapters at Kansas, Iowa, and Nebraska, by the terms of which the four Chapters joined in inviting a speaker to give the annual address at each of the Chapters. This co-operative plan has solved the difficulty often experienced in securing as speakers prominent scientists living at a distance. Doctor Charles Sedgwick Minot delivered the annual address in 1907, and in the year 1908 the speaker was Doctor Russell H. Chittenden of Yale University; in 1909, Doctor Arthur Gordon Webster of Clark University; in 1910, Doctor Percival Lowell. In spring of 1910 delegates from the four Chapters met at Iowa City to consider a renewal and extension of the co-operative plan of securing Sigma Xi addresses. To meet the varied interests of the different Chapters it seemed desirable to discontinue the circuit and to extend the plan by forming two or more circuits. Accordingly, the Chapters of Kansas, Missouri, and Washington University formed a new agree-

ment for a period of three years. The first season was successfully inaugurated last fall by Doctor Edmund B. Wilson of Columbia University, who gave two addresses before each of the Chapters.

During the *six full years* of its existence the Chapter has contributed materially towards stimulating original investigation in the sciences, and to bringing its members into closer relationships with each other. Election to membership in Sigma Xi has become an effective force in directing the footsteps of the undergraduate student toward the pathway of original investigation. In the near future we hope that the Chapter may devise and establish new ways and means of stimulating and encouraging worthy and promising students in becoming zealous workers in the fields of scientific research.

H. S.

PUBLICATIONS

By-laws of the Missouri Chapter of the Sigma Xi. n. p. n. d.

OFFICERS FOR 1911-12

President.....	OLIVER DIMON KELLOGG
Vice-President.....	CLARENCE HENRY ECKLES
Recording Secretary.....	ABRAHAM LINCOLN HYDE
Corresponding Secretary.....	HERMAN SCHLUNDT
Treasurer.....	LEWIS DARWIN AMES
Councilor.....	OSCAR MILTON STEWART

MEMBERSHIP ROLL

Leland Barton Alford	U 1908	St. Louis, Mo.
Medical Student, Washington University		
Jessie Blount Allen	F 1908 (Chicago G 1904)	Columbia, Mo.
(Mrs Werrett Wallace Charters)		
Lewis Darwin Ames	F 1905*	Columbia, Mo.
Assistant Professor of Mathematics, University of Missouri		
Lee Seldon Backus	F 1908 (Cornell U 1906)	Columbia, Mo.
Instructor in Veterinary Science, University of Missouri		
Agnes Sime Baxter	C 1905 (Cornell G 1894)	Columbia, Mo.
(Mrs. Albert Ross Hill)		
Elexious Thompson Bell	F 1907*	Minneapolis, Minn.
Assistant Professor of Anatomy, University of Minnesota		
Robert Montgomery Bird	F 1905*	Charlottesville, Va.
Collegiate Professor of Chemistry, University of Virginia		
Virgil Lee Board	U 1910	Denver, Col.
Engineer, Denver Gas and Electric Company		
William T Bovie	G 1909	Cambridge, Mass.
Graduate Student, Harvard University		
John Davis Bowles	U 1909	St. Louis, Mo.
Electrical Engineer		
Edwin Bayer Branson	F 1910* (Chicago G 1904; Kansas U 1903)	
Professor of Geology, University of Missouri [Columbia, Mo.]		

Clark Arthur Briggs	U 1907	Washington, D. C.
Assistant Physicist, United States Bureau of Standards		
Joseph Hugh Brooking	U 1907	Springfield, Mo.
Assistant Engineer, Frisco Railroad		
Charles Brooks	G 1905	Durham, N. H.
Professor of Botany, New Hampshire College		
William George Brown	CF 1905*†	Columbia, Mo.
Professor of Industrial Chemistry, University of Missouri		
H Hays Bullard	G 1909	New Orleans, La.
Instructor in Anatomy, Tulane University		
Sidney Calvert	F 1905*	Columbia, Mo.
Professor of Organic Chemistry, University of Missouri		
William Jephtha Calvert	F 1905	Columbia, Mo.
Professor of Preventive Medicine, University of Missouri		
Jesse Lee Carter	U 1910	Oklahoma City, Okla.
Teacher of Biology, High School		
William Henry Chandler	U 1905	Columbia, Mo.
Assistant Professor of Horticulture, University of Missouri		
Jessie (Allen) Charters	F 1908 (Chicago G 1904)	Columbia, Mo.
(Mrs Werrett Wallace Charters)		
Lucius Franklin Childers	G 1906	Moscow, Ida.
Professor of Agronomy, Idaho Experiment Station		
Edward Wilson Chittenden	U 1909	Chicago, Ill.
Graduate Student, University of Chicago		
Wilbur Andrew Cochel	U 1905	State College, Pa.
Professor of Animal Husbandry, Pennsylvania State College		
Pleasant Theodore Cole	U 1910	Norfolk, Va.
Assistant Horticulturist, Virginia Truck Experiment Station		
John Waldo Connaway	CF 1905	Columbia, Mo.
Professor of Comparative and Veterinary Medicine, University of Missouri		
Cyrus Richard Crosby	F 1906*	Ithaca, N. Y.
Assistant Professor of Entomology, Cornell University		
Winterton Conway Curtis	F 1905*	Columbia, Mo.
Professor of Zoology, University of Missouri		
Walter Edward Dandy	U 1907	Baltimore, Md.
Student Assistant in Surgery, Johns Hopkins University		
Charles Thornton Dearing	U 1909	Washington, D. C.
Assistant Pomologist, United States Department of Agriculture		
David Hough Dolley	F 1911*	Columbia, Mo.
Professor of Pathology, Bacteriology and Hygiene, University of Missouri		
Howard Waters Doughty	F 1906*	Amherst, Mass.
Associate Professor of Chemistry, Amherst College		
Thomas Rankin Douglass	U 1911	Columbia, Mo.
Assistant in Agronomy, University of Missouri		
Benjamin Minge Duggar	CF 1905*† (Cornell F 1897)	Ithaca, N. Y.
Professor of Plant Physiology, Cornell University		

Otto Dunkel	F 1909*	Columbia, Mo.
Instructor in Mathematics, University of Missouri		
Elias Judah Durand	F 1910* (Cornell U 1893)	Columbia, Mo.
Assistant Professor of Botany, University of Missouri		
Clarence Henry Eckles	F 1905*	Columbia, Mo.
Professor of Dairy Husbandry, University of Missouri		
Earl Newton Elsea	U 1910	Kennett, Mo.
Principal, High School		
John Marcus Evvard	F 1908 (Illinois U 1907)	Ames, Ia.
Experimentalist in Animal Husbandry, Iowa State College		
Ernest Howard Favor	G 1905	St. Joseph, Mo.
Assistant Editor, Fruit Grower		
Edwin Allen Fessenden	G 1906	Columbia, Mo.
Assistant Professor of Mechanical Engineering, University of Missouri		
Mary Alida Fitch	G 1906	Lafayette, Ind.
Assistant in Botany, Indiana Experiment Station		
Ruby Fitch	G 1905	Springfield, Mo.
Teacher of Botany and Zoology, High School		
Alan Estis Flowers	F 1905* (Cornell U 1902)	Columbia, Mo.
Assistant Professor of Electrical Engineering, University of Missouri		
Ernest Browning Forbes	F 1907	Wooster, Ohio
Chief of Department of Nutrition, Ohio Experiment Station		
Lester R Ford	U 1911	Columbia, Mo.
Scholar in Mathematics, University of Missouri		
Harry Roscoe Fulton	G 1905*	State College, Pa.
Associate Professor of Botany, Pennsylvania State College		
Beverly Thomas Galloway	A 1905*†	Washington, D. C.
Chief, Bureau of Plant Industry, United States Department of Agriculture		
Robert Banks Gibson	F 1907* (Yale U 1902)	Minneapolis, Minn.
Assistant Professor of Physiological Chemistry, University of Minnesota		
Clarence Allen Good	CF 1905	St. Joseph, Mo.
Professor of Medicine, Ensworth Medical College		
William Hammack Goodson	G 1905	Liberty, Mo.
Physician		
Arthur Maurice Greene, Jr	CF 1905* (Pennsylvania F 1900)	Troy, N. Y.
Professor of Mechanical Engineering, Rensselaer Polytechnic Institute		
Charles Wilson Greene	CF 1905*	Columbia, Mo.
Professor of Physiology and Pharmacology, University of Missouri		
John Casser Grossenbacher	U 1906*	Geneva, N. Y.
Associate Botanist, Agricultural Experiment Station		
Thomas Sherwood Haddaway	U 1911	Beaver, Utah
Electrical Engineer, Beaver River Power Company		
Homer Huston Haggard	U 1905	Havana, Cuba
Civil Engineer		
Leonard Dixon Haigh	G 1910	Columbia, Mo.
Assistant in Agricultural Chemistry, University of Missouri		

- Leonard Haseman F 1910 (Indiana G 1906) Columbia, Mo.
Instructor in Entomology, University of Missouri
- Paul Hayhurst G 1905* Fayetteville, Ark.
Professor of Entomology, University of Arkansas
- Eli Stuart Haynes U 1905* Berkeley, Cal.
Fellow in Astronomy, University of California.
- Fred George Hechler U 1908 Troy, N. Y.
Instructor, Mechanical Engineering, Rensselaer Polytechnic Institute
- Earle Raymond Hedrick CF 1905* (Yale G 1902) Columbia, Mo.
Professor of Mathematics, University of Missouri
- Herbert Wade Hibbard F 1909* (Cornell G 1891) Columbia, Mo.
Professor of Mechanical Engineering, University of Missouri
- Agnes Sime Baxter Hill C 1905 (Cornell G 1894) Columbia, Mo.
(Mrs Albert Ross Hill)
- Albert Ross Hill CF 1905*† (Nebraska F 1897) Columbia, Mo.
President, University of Missouri
- Albert Hogan G 1910 Columbia, Mo.
Research Fellow, Agricultural Chemistry, University of Missouri
- Robert Francis Howard U 1908 Lincoln, Neb.
Assistant Professor of Horticulture, University of Nebraska
- Walter Lafayette Howard F 1907* Columbia, Mo.
Professor of Horticulture, University of Missouri
- Harley Earl Howe G 1906 Ithaca, N. Y.
Instructor in Physics, Cornell University
- Harold DeMott Hughes F 1908 (Illinois U 1907) Ames, Ia.
Professor of Crop Production, Iowa State College
- Wallie Abraham Hurwitz G 1906* Ithaca, N. Y.
Instructor in Mathematics, Cornell University
- Claude Burton Hutchison U 1908 Columbia, Mo.
Assistant Professor of Agronomy, University of Missouri
- Abraham Lincoln Hyde F 1906 Columbia, Mo.
Assistant Professor of Bridge Engineering, University of Missouri
- Louis Ingold F 1908 (Chicago G 1906) Columbia, Mo.
Instructor in Mathematics, University of Missouri
- Clarence Martin Jackson F 1905* Columbia, Mo.
Professor of Anatomy and Dean, Medical Department, University of Missouri
- Clarence Sylvester Jarvis U 1906 Provo, Utah
Civil Engineer, United States Deputy Mineral Surveyor
- Richard Henry Jesse, Jr G 1906 Urbana, Ill.
Instructor in Chemistry, University of Illinois
- Franklin Paradise Johnson U 1908 Boston, Mass.
Instructor in Histology and Embryology, Harvard University
- Mary Lucille Keene U 1910 Columbia, Mo.
Assistant in Botany, University of Missouri
- Oliver Dimon Kellogg F 1906* Columbia, Mo.
Professor of Mathematics, University of Missouri

Robert Russ Kern	U 1905	Washington, D. C.
Assistant Professor of Economics, George Washington University		
Raymond Alvan Kizer	U 1906	Kansas City, Mo.
Draftsman, City Engineer's Office		
Waldemar Koch	F 1905* (Chicago CF 1903)	
(Deceased)		
Louis Otto Kunkel	U 1909	St. Louis, Mo.
Research Fellow, Shaw School of Botany		
William M Landess	U 1910	Athens, Ga.
Veterinarian, in Charge of Hog Cholera Laboratory		
Colin Kingsley Lee	U 1911	Kansas City, Mo.
Deputy City Electrician		
George Lefevre	CF 1905*†	Columbia, Mo.
Professor of Zoology, University of Missouri		
Ruskin Lhamon	U 1908	Manila, P. I.
Assistant Professor of Anatomy, University of the Philippines		
Leo Loeb	U 1906	Annapolis, Md.
Mechanical Engineer, U. S. Naval Experiment Station		
Lawson Gentry Lowrey	G 1910	Columbia, Mo.
Acting Assistant Professor in Anatomy, University of Missouri		
Ned Chester Mann	U 1910	St. Louis, Mo.
Draftsman, United Railway Company		
Charles Fletcher Marbut	CF 1905*	Columbia, Mo.
Professor of Geology, University of Missouri		
Charles Knox Martin	U 1905	Doniphan, Mo.
Dairy Farmer		
Gertrude Karen Mathiason	G 1911	St. Louis, Mo.
Chemist		
Jesse Francis McClendon	F 1907* (Pennsylvania G 1905)	New York
Instructor in Embryology, Cornell Medical College [City		
Caroline McGill	G 1905*	Butte, Mont.
Assistant Professor of Anatomy, Murray Hospital		
Walter James McMin	U 1908	Provo, Utah
Electrical Engineer, Telluride Power Company		
Homer Elkanah McNatt	U 1910	Columbia, Mo.
Assistant in Dairy Husbandry, University of Missouri		
Karl Absalom McVey	G 1910	Kansas City, Mo.
Construction Engineer, Rollins and Westover		
Max Meyer	CF 1905*	Columbia, Mo.
Professor of Experimental Psychology, University of Missouri		
Merritt Finley Miller	F 1905 (Ohio U 1900)	Columbia, Mo.
Professor of Agronomy, University of Missouri		
Walter McNab Miller	CF 1905	Columbia, Mo.
Secretary, Missouri Association for Control of Tuberculosis		
Walter Scott Monroe	U 1905	Chicago, Ill.
Graduate Student, University of Chicago		

Verle Weaver Morris	U 1911 Electrical Engineer	Cicero, Ill.
Charles Robert Moulton	G 1907* (Illinois U 1905) Assistant Professor of Agricultural Chemistry, University of Missouri	Columbia, Mo.
Frederick Blackmar Mumford	CF 1905*† Dean, College of Agriculture, University of Missouri	Columbia, Mo.
Max Washington Myer	F 1905 Surgeon	St. Louis, Mo.
Guy Lincoln Noyes	F 1905 Superintendent of Parker Memorial Hospital	Columbia, Mo.
Robert Morris Ogden	F 1905* Assistant Professor of Philosophy and Psychology, University of Tennessee	Knoxville, Tenn.
Robert Conrad Palmer	U 1909 Chemical Engineer, Forest Products Laboratory	Madison, Wis.
Leroy Sheldon Palmer	U 1909 Dairy Chemist, U. S. Department of Agriculture, University of Missouri	Columbia, Mo.
Henry Clair Philippi	U 1908 Teacher, State Normal School	Bellingham, Wash.
Howard Wade Price	U 1911 Mechanical Engineer, The Meriam Company	Cleveland, Ohio
Charles Albert Proctor	CF 1905* (Chicago G 1903) Assistant Professor of Physics, Dartmouth College	Hanover, N. H.
Merle Randall	U 1907 Fellow in Physical Chemistry, Massachusetts Institute of Technology	Boston, Mass.
George Matthew Reed	F 1908* Assistant Professor of Botany, University of Missouri	Columbia, Mo.
Howard Sprague Reed	CF 1905* (Michigan CG 1903) Professor of Bacteriology, Virginia Polytechnic Institute	Blacksburg, Va.
Herbert Meredith Reese	F 1905* Assistant Professor of Physics, University of Missouri	Columbia, Mo.
Harvey Clayton Rentschler	F 1909* Assistant Professor of Physics, University of Missouri	Columbia, Mo.
Ernest Franklin Robinson	G 1905 Junior Engineer, United States Engineer's Office	New York City
Charles Bradford Rodes	G 1906 Physician, Murray Hospital	Butte, Mont.
Thomas Jacob Rodhouse	F 1908 (Cornell G 1905) Assistant Professor of Hydraulic Engineering, University of Missouri	Columbia, Mo.
Hugh Chilton Rogers	U 1911 Civil Engineer	Lexington, Mo.
Earl Wilson Rusk	U 1909 Live Stock Farmer	Martin City, Mo.
Henry Perly Rusk	U 1908 (Illinois F 1910) Associate in Beef Cattle Husbandry, Illinois Experiment Station	Urbana, Ill.
Oscar Charles Schaefer	U 1909 Graduate Student, University of Missouri	Columbia, Mo.

- Herman Schlundt F 1905*† Columbia, Mo.
Professor of Physical Chemistry, University of Missouri
- Paul Schweitzer CF 1905*†
(Deceased 1911)
- Frederick Hanley Seares CF 1905*† Pasadena, Cal.
Superintendent, Computing Division, Mt. Wilson Solar Observatory
- Russell Alva See U 1910 Kansas City, Mo.
Draftsman, Kansas City Terminal Railway
- Charles William Seibel U 1907 Chicago, Ill.
Engineer, in Charge of Meter and Service Department, Sanitary District
- William Kerlin Seitz U 1906 St. Joseph, Mo.
Engineer, Seitz-Peterman Engineering Company
- Homer Leroy Shantz F 1906* (Nebraska G 1905) Washington, D. C.
Plant Physiologist, United States Department of Agriculture
- Harlow Shapley U 1910 Princeton, N. J.
Fellow in Astronomy, Princeton University
- Howard Burton Shaw CF 1905*† Columbia, Mo.
Dean, School of Engineering, University of Missouri
- Roscoe Hart Shaw F 1908 (Nebraska F 1906) Washington, D. C.
Dairy Chemist, United States Department of Agriculture
- Edwin Henry Schorer F 1908 Boston, Mass.
Fellow in Medicine, Harvard Medical School
- Chester Gibbs Starr U 1906 Centralia, Mo.
Stock Breeder
- John Moore Stedman CF 1905*† (Columbia U 1888) Washington, D. C.
Specialist in Agricultural Education Extension
- Matthew Steele F 1910 (Columbia G 1908) Columbia, Mo.
Assistant Professor of Physiological Chemistry, University of Missouri
- Oscar Milton Stewart CF 1905*† (Cornell G 1895) Columbia, Mo.
Professor of Physics, University of Missouri
- Stanley Stokes U 1911 Columbia, Mo.
Assistant in Physics, University of Missouri
- George Washington Tanreuther F 1910 (Chicago G 1905) Columbia, Mo.
Instructor in Zoology, University of Missouri
- Perry Fox Trowbridge F 1907* (Illinois F 1905) Columbia, Mo.
Professor of Agricultural Chemistry, University of Missouri
- Elmer Elsworth Vanatta G 1911 Columbia, Mo.
Assistant, Agricultural Chemistry, University of Missouri
- Mary Shore Walker G 1904 Worcester, Mass.
(Mrs Albert W Hull)
- Henry Jackson Waters F 1905*† Manhattan, Kan.
President, Kansas State Agricultural College
- Luther Abraham Weaver U 1910 Columbia, Mo.
Instructor in Animal Husbandry, University of Missouri
- Eula Adeline Weeks U 1908 Bryn Mawr, Pa.
Teacher of Mathematics, The Misses Shipley School

Mende Penco Weinbach	U 1907	Columbia, Mo.
Instructor in Electrical Engineering, University of Missouri		
Albert Paul Weiss	U 1909	Columbia, Mo.
Assistant in Experimental Psychology, University of Missouri		
Wilhelm David Allen Westfall	F 1908* (Yale U 1901)	Columbia, Mo.
Assistant Professor of Mathematics, University of Missouri		
Dwight Nelson Wetherell	U 1910	Wiley, Col.
Civil Engineer, Wiley Power Company		
Frank Elbert Wheelock	F 1910 (Yale G 1910)	Columbia, Mo.
Instructor in Physics, University of Missouri		
Joseph Andrew Whitlow	U 1908	Columbia, Mo.
Superintendent of Buildings, University of Missouri		
John Charles Whitten	CF 1905*†	Columbia, Mo.
Professor of Horticulture, University of Missouri		
Edwin Garder Woodward	U 1911	Columbia, Mo.
Assistant in Dairy Husbandry, University of Missouri		
Tom Elwyn Woodward	G 1911	Washington, D. C.
Superintendent, Dairy Experiment Farm, U. S. Department of Agriculture		
Turner Richard Haden Wright	U 1909	Manhattan, Kan.
Assistant in Animal Husbandry, Kansas State College		
Lewis Harry Winkler	U 1907	Johnstown, Pa.
Testing Engineer, Cambria Steel Works		
Clinton Talbot Yates	U 1909	St. Louis, Mo.
Engineer, United Railway Company		
Daisy Young	G 1909	Shreveport, La.
Teacher of Biology		

COLORADO CHAPTER

UNIVERSITY OF COLORADO, BOULDER, COLORADO.

Charter Dated April 3, 1905

Chapter Installed May 20, 1905

HISTORICAL SKETCH

Colorado Chapter of the Society of the Sigma Xi was organized April 1, 1905, although the Charter is dated April 3, 1905. The formal installation occurred May 20, 1905, Doctor Henry Baldwin Ward of the University of Nebraska conducting the ceremonies. The installation address on The Society of the Sigma Xi was later published in pamphlet form by the Chapter. In an open public meeting which followed, Doctor Ward delivered an address on The Role of Animals in the Transmission of Disease.

At the close of each academic year a public meeting has been held, with an address by some prominent outside speaker, as follows:

1906: Doctor Thomas H. McBride, of Iowa City, Iowa, on The Response of Plants.

1907: Doctor Regis Chauvenet, of Denver, Colorado, on The Uses and Dangers of Scientific Theories.

1908: Doctor Florian Cajori, of Colorado Springs, Colorado, on The History of a Doctrine.

In addition to these open meetings and the regular business meetings, the Chapter has held two or three meetings each year at which were read scientific papers based upon research work done by the members. Many papers written by members have appeared in various technical periodicals but only one has been published under the auspices of the Chapter as given below.

J. H.

PUBLICATIONS

The Society of The Sigma Xi—(Address at the Installation of the Colorado Chapter, Society of the Sigma Xi, by Doctor Henry B. Ward of the University of Nebraska May 20th, 1905.) Boulder, Colorado, 1905, pp. 18.

By-Laws of the Colorado Chapter of the Society of the Sigma Xi. 1905, pp. 12.

OFFICERS FOR 1911-12

President.....	JOHN BERNARD EKELEY
Vice-President.....	SAUL EPSTEEN
Recording Secretary.....	HARRY ALFRED CURTIS
Corresponding Secretary.....	HARRY ALFRED CURTIS
Treasurer.....	IRA MITCHELL DELONG
Councilor.....	FRANCIS RAMALEY

MEMBERSHIP ROLL

Alfred Horace Allen	U 1909 Chemist	Boulder, Col.
Philip Harry Argall	G 1908 Manager, Independence Mine	Victor, Col.
John Christian Bailar	G 1909 Assistant Professor of Chemistry, Colorado School of Mines	Golden, Col.
Joseph Hershey Bair	CF 1905* Private Research	Philadelphia, Pa.
Dessie Brown Robertson Barrows (Mrs Frank Lee Barrows)	F 1906	Moscow, Ida.
Frank Lee Barrows	U 1908 Physician	Moscow, Ida.
Amy Bell (Mrs Martin Emmet Miles)	G 1907	Kingsville, Tex.
William Raymond Brackett	F 1910 Instructor in Physics, University of Colorado	Boulder, Col.
Clough Turrill Burnett	F 1910 Professor of Bacteriology, University of Colorado	Boulder, Col.
Roy Morrill Butters	G 1910 Assistant in Geology, University of Colorado	Boulder, Col.
Ruby Lily Carstens (Mrs Harry Evans Sovereign)	G 1906	Grand Valley, Col.
George Henry Cattermole	CF 1905 Physician	Boulder, Col.
Maud Clark (Mrs John Gardiner)	G 1905	Boulder, Col.
Theodore Dru Alison Cockerell	F 1905*† Professor of Zoology, University of Colorado	Boulder, Col.
Wilmatte Porter Cockerell (Mrs Theodore Dru Alison Cockerell)	G 1907	Boulder, Col.
Claude C. Coffin	U 1905 Lawyer	Fort Collins, Col.
Ralph Dixon Crawford	F 1905 Assistant Professor of Geology, University of Colorado	Boulder, Col.
Harry Alfred Curtis	U 1908 Instructor in Chemistry, University of Colorado	Boulder, Col.
Henry Baldwin Dates	CF 1905 (Case F 1905) Professor of Electrical Engineering, Case School of Applied Science	Cleveland, Ohio
Paul Marshall Dean	U 1908 Instructor in Chemistry, University of Colorado	Boulder, Col.
Ira Mitchell DeLong	CF 1905* Professor of Mathematics, University of Colorado	Boulder, Col.
Gideon Stanhope Dodds	G 1905 (Pennsylvania G 1909) Instructor in Zoology, University of Missouri	Columbia, Mo.
Frederick William Doolittle	F 1907 (Illinois F 1908) Assistant Professor of Mechanics, University of Wisconsin	Madison, Wis.

William Duane	CF 1905*	Paris, France
Curie Laboratory, University of Paris		
John Bernard Ekeley	CF 1905*	Boulder, Col.
Professor of Chemistry, University of Colorado		
Arnold Emch	CF 1905* (Kansas F 1895)	Urbana, Ill.
Assistant Professor of Mathematics, University of Illinois		
Saul Epstein	F 1906 (Chicago CF 1903)	Boulder, Col.
Professor of Mathematics, University of Colorado		
Herbert Silas Evans	F 1906 (Nebraska G 1900)	Boulder, Col.
Professor of Electrical Engineering, University of Colorado		
Louise Henriette Falk	F 1910	Fort Collins, Col.
(Mrs Wilfred William Robbins)		
Valentine Benjamin Fischer	U 1909	Boulder, Col.
Physician		
Howard Carlton Ford	F 1905	Ames, Ia.
Associate Professor of Engineering, Iowa State College		
Maud Clark Gardiner	G 1905	Boulder, Col.
(Mrs J J P Odell)		
Russell D George	CF 1905*	Boulder, Col.
State Geologist, Professor of Geology, University of Colorado		
Frank Anthony Giacomini	G 1908	Berlin, Germany
Graduate Student, University of Berlin		
Clay Emery Giffin	U 1905	Boulder, Col.
Physician		
Luman Moody Giffin	CF 1905	Boulder, Col.
Physician		
Oscar Monroe Gilbert	F 1905	Boulder, Col.
Professor of Medicine, University of Colorado		
William Page Harlow	F 1906	Boulder, Col.
Dean of Medical School, University of Colorado		
Junius Henderson	F 1905	Boulder, Col.
Professor of Natural History, University of Colorado		
Vivian Allen Charles Henmon	F 1906 (Columbia G 1907)	Madison, Wis.
Associate Professor of Education, University of Wisconsin		
Gerard Louis Cornelius Maarten van Rossen Hoogendijk	F 1911	Boulder, Col.
Instructor in Chemistry, University of Colorado		
John Andrew Hunter	F 1905	Boulder, Col.
Professor of Engineering, University of Colorado		
Whitney Clark Huntington	F 1911	Boulder, Col.
Instructor in Civil Engineering, University of Colorado		
Harold Leader Ireland	G 1909	Pittsburgh, Pa.
Engineer, Westinghouse Electric and Manufacturing Company		
Bethel Howard Jackson	G 1906	Boulder, Col.
Fellow, University of Colorado		
Edward Jackson	F 1909	Denver, Col.
Physician and Professor of Ophthalmology, Colorado Medical School		

David Rhys Jenkins	F 1906	Boulder, Col.
Assistant Professor of Electrical Engineering, University of Colorado		
Oscar Perry Johnston	F 1906	Chicago, Ill.
Physician		
Chancey Juday	CF 1905 (Wisconsin CF 1907)	Madison, Wis.
Biologist, Wisconsin Natural History Survey		
Alfred Allen Kelley	U 1911	Chicago, Ill.
Student with Western Electric Company		
Henry James Kesner	G 1907	Berkeley, Cal.
Assistant Professor of Engineering, University of California		
Milo Smith Ketchum	F 1905†	Boulder, Col.
Dean of College of Engineering, University of Colorado		
Fred Hutton Kroger	G 1905 (Cornell F 1906)	Brooklyn, N. Y.
Engineer, National Electric Signalling Company		
Heman Burr Leonard	G 1906 (Chicago G 1904)	Eugene, Ore.
Assistant Professor of Mathematics, University of Oregon		
Oliver Clarence Lester	F 1907 (Yale F 1903)	Boulder, Col.
Professor of Physics, University of Colorado		
Charles Alfred Lory	F 1905*	Fort Collins, Col.
President, State Agricultural College		
Martin Emmet Miles	F 1905	Kingsville, Tex.
Physician		
Amy Bell Miles	G 1907	Kingsville, Tex.
(Mrs Martin Emmet Miles)		
Earl Bowman Millard	U 1910 (Illinois F 1911)	Urbana, Ill.
Assistant in Chemistry, University of Illinois		
Floyd Hays Millard	U 1910	Urbana, Ill.
Johnson Edward Naugle	U 1908	Star, Ida.
Physician		
Winogene Nelson	U 1908	Durango, Col.
Maud Clark Gardiner Odell	G 1905	Boulder, Col.
(Mrs J J P Odell)		
Alvin Roy Peebles	F 1908	Boulder, Col.
Professor of Theory and Practice of Medicine, University of Colorado		
Charles Franklin Poe	U 1911	Boulder, Col.
Instructor in Chemistry, University of Colorado		
Alfred Peter Poorman	F 1908	Lafayette, Ind.
Assistant Professor of Mechanics, Purdue University		
Dean Truxell Prosser	U 1910	Cheyenne, Wyo.
Emley Barber Queal	CF 1905	Boulder, Col.
Professor of Physiology, University of Colorado		
Ethel Jackson Ramaley	G 1909	Boulder, Col.
(Mrs Francis Ramaley)		
Francis Ramaley	CF 1905* (Minnesota G 1906)	Boulder, Col.
Professor of Biology, University of Colorado		

Wilfred William Robbins	F 1909	Fort Collins, Col.
Instructor in Botany, Colorado Agricultural College		
Dessie Brown Robertson (Mrs Frank Lee Barrows)	F 1906	Moscow, Ida.
Eugene Herbert Robertson	CF 1905 Physician	Boulder, Col.
Walter Gustav Adolph Schulte	G 1907 Physician	Salt Lake City, Utah
Guy Watson Smith	F 1910	Boulder, Col.
Instructor in Mathematics, University of Colorado		
Harry Evans Sovereign	U 1908	Grand Valley, Col.
Engineer, Wilcox Canal Company		
Ruby Lily Carstens Sovereign	G 1906	Grand Valley, Col.
(Mrs H E Sovereign) Instructor in Mathematics, University of Colorado		
Frank Robert Spencer	F 1908	Boulder, Col.
Physician, Instructor, University of Colorado		
Charles Stillman Sperry	U 1911 Civil Engineer	Boulder, Col.
George Weatherworth Stratton	U 1907	Columbus, Ohio
Instructor in Chemistry, Ohio State University		
George Leonard Sullivan	F 1908 (Nebraska G 1908)	Bozeman, Mont.
Assistant Professor of Machine Design, Montana School of Mines		
Arthur Lawrie Tatum	F 1907 (Iowa G 1907)	Madison, Wis.
Instructor in Pharmacology, University of Wisconsin		
James Underhill	G 1905	Idaho Springs, Col.
United States Mining Surveyor		
George Albert Wall	G 1908	Calgary, Alberta
Civil Engineer, Canadian Pacific Railway Company		
Jacob H Wallace	F 1906	Boulder, Col.
Designing Engineer		
Robert John Wells	G 1905	Loveland, Col.
Superintendent of Schools		
Judson Ray West	CG 1905	Seattle, Wash.
Assistant City Engineer		
Ross Chauncey Whitman	F 1908	Denver, Col.
Professor of Pathology, University of Colorado School of Medicine		
Clement Clarence Williams	F 1908 (Illinois U 1907)	Boulder, Col.
Assistant Professor of Civil Engineering, University of Colorado		
Philip George Worcester	U 1909	Boulder, Col.
Instructor in Geology, University of Colorado		

NORTHWESTERN CHAPTER

NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS

Charter Dated January 17, 1906 Chapter Installed January 17, 1906

HISTORICAL SKETCH

The Northwestern Chapter of Sigma Xi was organized largely through the efforts of Professor Henry S. White, then Professor of Mathematics at Northwestern University and now at Vassar College. The first petition was signed by only nine persons but this was reinforced by a number of additional signatures and was finally sent to the general society about May 25, 1905.

The organization of the Chapter was authorized by President Edward L. Nichols, in a letter dated November 25, 1905. The preliminary organization was effected on December 1, 1905, with Professor Grant as Chairman. The installation of the chapter was made by President Nichols on the afternoon of January 17, 1906. The charter bears this date and contains the names of twenty-five charter members, in addition to whom four members were initiated at that time, whose names are not on the document. The date of installation was the two hundredth anniversary of the birth of Benjamin Franklin, and an appropriate celebration of this event was observed that evening. Professor J. A. James of Northwestern University gave an address on Franklin as a Diplomat, while President Nichols gave an address on Is Investigation Worth While? A reception was tendered by the University Guild.

At the first annual meeting, April 2, 1906, Professor Locy was elected President of the Chapter, and By-Laws were adopted. On April 6, 1906, Doctor George E. Hale gave an illustrated lecture on The Work of the Carnegie Solar Observatory at Mt. Wilson. At the initiation, June 13, 1906, Professor W. A. Locy delivered an address upon Investigation, illustrating it with work done the previous year in his department.

At the following initiation, December 19, 1906, Professor Jacob Reighard, of the University of Michigan, gave an address upon Habits of Nest Building Fishes. On January 25, 1907, Professor Crew and Professor Locy presented a careful discussion of the question What Sciences Should be Required in a College Course. On May 17, 1907, Professor Crew was elected President of the chapter, and the initiation occurred on May 24, 1907, on which occasion Professor Locy gave an address on The Life of Linnaeus, and his Special Service to Natural History. Professor Atwell also spoke upon Linnaeus as a Botanist.

On October 14, 1907, the subject of Osmosis was discussed from the points of view of Physics, Chemistry, Botany, and Zoology by Professors Tatnall, Young, Atwell, and Harper respectively. The next initiation took place November 22, with short addresses by members as follows:

J. H. Long, on Chemical Composition of Water; U. S. Grant, on Water as a Geological Agent; and O. H. Basquin, on Anchor and Frazil Ice. On February 19, 1908, Professor Cassius J. Keyser, of Columbia University, gave an address upon The Aims and Achievements of Modern Mathematicians. The initiation of members occurred on May 9, with a public address by John A. Brashear, Sc.D., LL.D., upon Some Problems in the Making of a Large Telescope.

In honor of the Darwin Centenary the chapter furnished a public lecture on February 19, 1909, by Professor E. G. Conklin of Princeton University, whose subject was the Life and Work of Charles Darwin. At the initiation on May 7, 1909, Mr. John F. Hayford of the Coast and Geodetic Survey, spoke upon the Work of the International Geodetic Association.

At the initiation, December 16, 1909, the program included a number of short papers:—Professor Grant, on Topographical and Geological Survey of Cook's Inlet, Alaska; Professor Crew, on Absorption of Light and Ionization; Professor Bauer, on A New Primary Battery; Professor Fox, on Spectra of Sun Spots; Professor Basquin, on Exponential Law of Endurance Tests. At the initiation, May 26, 1910, papers were given as follows:—Professor Fox, on Comets; Doctor Lewis, on The Pure Food Movement; Mr. E. V. Smith, on Spiral Ganglion Cells.

On December 1, 1910, a public lecture was given by Doctor D. T. MacDougal, of the Carnegie Institution, whose subject was American Deserts.

O. H. B.

OFFICERS FOR 1911-12

President.....	PHILIP FOX
Vice-President.....	WINFORD LEE LEWIS
Recording Secretary.....	GEORGE ROGERS MANSFIELD
Corresponding Secretary.....	OLIN HANSON BASQUIN
Treasurer.....	ROBERT RICHARDSON TATNALL
Councilor.....	WILLIAM ALBERT LOCY

MEMBERSHIP ROLL

Nathaniel G. Alcock	U 1906	Chicago, Ill.
Student, Medical School, Northwestern University		
Charles Beach Atwell	CF 1906*	Evanston, Ill.
Professor of Botany, Northwestern University		
Joseph Ray Banister	U 1906	
(Deceased 1907)		
Olin Hanson Basquin	CF 1906*	Evanston, Ill.
Professor of Applied Mechanics, Northwestern University		
William Charles Bauer	F 1909*	Evanston, Ill.
Professor of Electrical Engineering, Northwestern University		
Charles Scofield Blair	G 1906	Washington, D. C.
Geologist, U. S. Geological Survey		
Gilbert Haven Cady	G 1907 (Illinois F 1910)	Chicago, Ill.
Assistant Geologist, Illinois State Geological Survey		

Martin Rist Chase	U 1907	Chicago, Ill.
Assistant in Anatomy, Medical School, Northwestern University		
Laura Ethel Christman	U 1910	Wheaton, Ill.
Teacher of Mathematics and Physics, High School		
Justus Henry Cline	G 1908	Stuarts Draft, Va.
Assistant Geologist, Virginia Geological Survey		
Effie Virginia Fixen Clutton (Mrs Fred H Clutton)	F 1909	Chicago, Ill.
William Hawes Coghill	F 1908	Evanston, Ill.
Instructor in Mineralogy and Mining, Northwestern University		
Charles Edgar Corbin	G 1907	Huron, S. D.
Professor of Mathematics, Huron College		
Henry Crew	CF 1906*†	Evanston, Ill.
Professor of Physics, Northwestern University		
Alja Robinson Crook	CF 1906*†	Springfield, Ill.
Curator, State Natural History Museum		
George O Curme, Jr	U 1909	Chicago, Ill.
Graduate Student in Chemistry, University of Chicago		
David Raymond Curtiss	CF 1906*	Evanston, Ill.
Professor of Mathematics, Northwestern University		
Thomas Matthew Dahm	U 1907	Madison, Wis.
Assistant in Physics, University of Wisconsin		
Charles Elijah Decker	G 1907*	Chicago, Ill.
Graduate Student in Geology, University of Chicago		
Charles Ross Dines	U 1907	Hanover, N. H.
Instructor in Mathematics, Dartmouth College		
Lloyd Lyne Dines	U 1906	Chicago, Ill.
Fellow in Mathematics, University of Chicago		
Milton Walker Eddy	U 1909	State College, Pa.
Instructor in Zoology and Entomology, Pennsylvania State College		
Thomas Oscar Edgar	A 1908	St. Louis, Mo.
Doctor of Eye, Ear, Nose and Throat		
Philip Fox	F 1909*	Evanston, Ill.
Professor of Astronomy and Director of Dearborn Observatory		
Gordon Scott Fulcher	G 1905* (Wisconsin F 1909)	Madison, Wis.
Instructor in Physics, University of Wisconsin		
Newell Clark Gilbert	G 1907	Chicago Heights, Ill.
Physician and Surgeon		
James Walter Goldthwait	CF 1906*	Hanover, N. H.
Professor of Geology, Dartmouth College		
Cornelius Gouwens	U 1910	South Holland, Ill.
Ulysses Sherman Grant	CF 1906*† (Minnesota F 1896)	Evanston, Ill.
William Deering Professor of Geology, Northwestern University		
Elisha Hall Gregory	CF 1906†	Munich, Germany
Cora Guthrie	U 1910	Phillips, Wis.
Teacher of Science, Phillips High School		

Rufus Clifford Hall	U 1906	Washington, D. C.
Forest Service, U. S. Department of Agriculture		
Winfield Scott Hall	CF 1906*†	Chicago, Ill.
Professor of Physiology and Junlor Dean, Medical School, Northwestern University		
Eugene Howard Harper	CF 1906*	Evanston, Ill.
Assistant Professor of Zoology, Northwestern University		
Abram Winegardner Harris	F 1908*†	Evanston, Ill.
President, Northwestern University		
John Fillmore Hayford	F 1897*† (Cornell F 1896)	Evanston, Ill.
Director of College of Engineering, Northwestern University		
Claude William Heaps	U 1909	Princeton, N. J.
Fellow in Physics, Princeton University		
Enid Hennessey	U 1909	Evanston, Ill.
Biology Teacher, Chicago High Schools		
Daniel Franklin Higgins	U 1907	Songdo, Korea
Anglo-Korean School, Science Department		
Louis Ernest Hildebrand	G 1909	Kenilworth, Ill.
Instructor in Biology, New Trier High School		
Charles Hill	CF 1906*†	Chicago, Ill.
Physician		
Murray Arnold Hines	F 1907*	Evanston, Ill.
Assistant Professor of Chemistry, Northwestern University		
Edwin Fred Hirsch	U 1910	Urbana, Ill.
Fellow in Zoology, University of Illinois		
Lola Sevilla Hitch	U 1907	Palmyra, N. J.
Instructor in Science, High School		
Raymond Royce Hitchcock	G 1908	University, N. D.
Instructor in Mathematics, State University of North Dakota		
Thomas Franklin Holgate	CF 1906*†	Evanston, Ill.
Dean of College of Liberal Arts, Northwestern University		
Lloyd Holsinger	G 1908	Evanston, Ill.
Instructor in Mathematics, Evanston Academy		
George J Hough	A 1907	Denver, Col.
Metallurgist, Partridge Smelter Company		
George Washington Hough	CF 1906*†	
(Deceased 1909)		
Leland Wesley Irish	A 1909 (Union U 1904)	Evanston, Ill.
Civil Engineer		
Herbert Govert Keppel	CF 1906*	Gainesville, Fla.
Professor of Mathematics, University of Florida		
Raymond Castle Kotz	U 1907	Chicago, Ill.
Instructor in Science, Carl Schurz High School		
Ella W Kracke	U 1910	Wabash, Ind.
Science Teacher, Arlington Heights College		
Winford Lee Lewis	F 1908 (Chicago G 1907)	Evanston, Ill.
Instructor in Chemistry, Northwestern University		

- William Albert Locy CF 1906*† Evanston, Ill.
Professor of Zoology, Northwestern University
- John Harper Long CF 1906*† (Kansas A 1890) Chicago, Ill.
Professor of Chemistry, Northwestern University Medical School
- George Vest McCauley U 1907 Madison, Wis.
Fellow in Physics, University of Wisconsin
- George Rogers Mansfield F 1909* Evanston, Ill.
Assistant Professor of Geology, Northwestern University
- Clyde Orlando Marietta F 1908 St. Louis, Mo.
Instructor in Mathematics, Washington University
- Charles Searing Mead G 1909 (Ohio U 1904) New York City
Horticulturist, Sante Fe, Isle of Pines, West Indies
- John Wesley Merritt U 1911 Evanston, Ill.
Fellow in Geology, Northwestern University
- Robert Lee Moore F 1908* Evanston, Ill.
Instructor in Mathematics, Northwestern University
- James Caddell Morehead CF 1906* Evanston, Ill.
Assistant Professor of Mathematics, Northwestern University
- John Hiram Norris U 1909 Redfield, S. D.
- Charles Wesley Darwin Parsons CF 1906* (Cornell U 1897) Chicago, Ill.
Superintendent of Laboratory, Central Scientific Company
- Caro Beth Peck U 1908 Washington, D. C.
Clerk, Civil Service Commission
- Leigh H Pennington F 1909* (Michigan U 1906) Syracuse, N. Y.
Assistant Professor of Botany, Syracuse University
- Raymond Haines Pond CF 1906*
(Deceased)
- Thomas Lansing Porter U 1906 Colorado Springs, Col.
Professor of Physics, Colorado College
- Miner Raymond U 1906 Chicago, Ill.
Sales Department, Webster Manufacturing Company
- Gilbert Henry Andrew Rech G 1907 Chicago, Ill.
Bond Department, Illinois Trust and Savings Bank
- Leslie Hall Redelings G 1909 Baltimore, Md.
Student, Johns Hopkins Medical School
- Charles Gilbert Sabin G 1906 Portland, Ore.
Physician
- Arthur Hawley Sanford G 1907 Milwaukee, Wis.
Professor of Physiology, Marquette University Medical College
- Etoile Bessie Simons U 1904 (Chicago G 1905) Indianapolis, Ind.
Botanist, Manual Training School
- Eli Victor Smith G 1909 Seattle, Wash.
Assistant Professor of Zoology, University of Washington
- Keith Kuenzie Smith U 1909 Princeton, N. J.
Assistant in Physics, Princeton University
- Virgil Ray Stephens U 1908 Marshall, Mo.
Professor of Biology, Missouri Valley College

Harold Stiles	G 1907	Sioux City, Ia.
Professor of Physics, Morningside College		
Leon Irwin Shaw	F 1911 (Syracuse G 1908; Wisconsin F 1909)	
Instructor in Chemistry, Northwestern University [Evanston, Ill.		
Robert Richard Tatnall	CF 1906*	Evanston, Ill.
Associate Professor of Physics, Northwestern University		
Emma Jane Thomas	G 1906	La Grange, Ill.
Teacher of Biology, High School		
Granville Howard Twining	G 1906	Milwaukee, Wis.
Surgeon, Milwaukee Railway Hospital		
Lora Hennessey Walker	U 1906	Ridgeway, Mo.
(Mrs J H Walker)		
Lewis Hart Weld	F 1909*	Evanston, Ill.
Instructor in Biology, Evanston Academy		
Henry Seely White	CF 1906*†	Poughkeepsie, N. Y.
Professor of Mathematics, Vassar College		
Theodore Whittelsey	CF 1906*	Mishawaka, Ind.
Rubber Regenerating Company		
Robert Edward Wilson	CF 1906*	Evanston, Ill.
Assistant Professor of Mathematics, Northwestern University		
Abram Van Eps Young	CF 1906*†	Evanston, Ill.
Professor of Chemistry, Northwestern University		
John Wesley Young	CF 1906* (Cornell G 1901)	Hanover, N. H.
Head of Department of Mathematics, Dartmouth College		
Frederic Robert Zeit	CF 1906*	Chicago, Ill.
Professor of Pathology and Bacteriology, Northwestern University Medical		

SYRACUSE CHAPTER

SYRACUSE UNIVERSITY, SYRACUSE, NEW YORK

Charter Dated May 18, 1906

Chapter Installed May 18, 1906

HISTORICAL SKETCH

The petition for the establishment of the Syracuse Chapter of Sigma Xi at Syracuse University was sent to the President of the general Society in the autumn of 1905. Upon receipt of the unanimous approval of the already existing chapters, fifteen members of the faculty of Syracuse University and one graduate student, a member of the Chapter at Brown University, met on May 9 and elected Professor William H. Metzler as the first President of the Syracuse Chapter. On the evening of May 18, 1906, at the University Club in the city of Syracuse, these fifteen charter members were formally installed as the Syracuse Chapter of Sigma Xi by President Nichols of the National Society, who gave a public address entitled, Does Research Pay?

Research papers were read before the Society by its own members during 1906 and 1907. Three open meetings were held during 1907 and 1908 with addresses by Professor Charles F. Binns, Director of the State School of Ceramic Arts, Alfred, N. Y.; Doctor B. W. Evermann of the Bureau of Fisheries, Washington, D. C.; and Professor C. B. Child, of Colgate University. The fourth meeting was devoted to research reports by the members of the Syracuse Chapter.

During the year 1908 and 1909 three meetings were held at which research reports were presented by various members of the faculty; and one open meeting in celebration of the Darwin Centenary. Papers were given as follows: Darwin and Zoology, Professor C. W. Hargitt; Darwin and Botany, Professor W. L. Bray; Darwin and Geology, Doctor John M. Clarke, State Geologist, Albany, N. Y.

Four meetings were held during the year 1909 and 1910, which were devoted to research reports from various members of the Chapter.

In 1910 and 1911 there have been three meetings; two devoted to research reports, and one open meeting in conjunction with the Syracuse Section of the American Chemical Society, which was addressed by Doctor Harvey W. Wiley, Chief Chemist of the Department of Agriculture, Washington, D. C., upon the Services of Chemistry to the Public Welfare.

C. H. R.

PUBLICATIONS

The Chapter has published no reports as a Chapter, but many of its members have published research articles through their natural channels, since the organization of the Chapter in the spring of 1906. These publications are kept on file by the Secretary of the Chapter and will soon be placed in an alcove in the Carnegie Library of the University.

OFFICERS FOR 1911-12

President.....	THOMAS CRAMER HOPKINS
Vice-President.....	MARION S. DOOLEY
Recording Secretary.....	CHARLES HENRY RICHARDSON
Corresponding Secretary.....	CHARLES HENRY RICHARDSON
Treasurer.....	FLOYD FISKE DECKER
Councilor.....	WILLIAM HENRY METZLER

MEMBERSHIP ROLL

Ebenezer Henry Archibald	CF 1906*	Syracuse, N. Y.
Associate Professor of Chemistry, Syracuse University		
Maulsby Willett Blackman	F 1909*	Syracuse, N. Y.
Associate Professor of Zoology, Syracuse University		
Arthur E Brainerd	G 1911	Syracuse, N. Y.
Assistant in Geology, Syracuse University.		
William L Bray	F 1907*†	Syracuse, N. Y.
Professor of Botany, Syracuse University		
Edith Bronson	G 1910	Baltimore, Md.
Student, Medical College, Johns Hopkins University		
Harold Hiram Brown	G 1909	Syracuse, N. Y.
Instructor in Chemistry, Syracuse University		
Roger Frederic Brunel	F 1907*	Syracuse, N. Y.
Assistant Professor of Chemistry, Syracuse University		
Warren Gardner Bullard	F 1906*	Syracuse, N. Y.
Professor of Mathematics, Syracuse University		
Marie Elizabeth Cashman	G 1911	Syracuse, N. Y.
Graduate Student in Biology, Syracuse University.		
Burton William Clark	G 1907	Washington, D. C.
Geologist, United States Geological Survey		
Elizabeth Garrett Clark	G 1911	Syracuse, N. Y.
Graduate Student in Biology, Syracuse University.		
Gaylord Parsons Clark	F 1906*	
(Deceased 1907)		
Herbert Anthony Clark	CF 1906 (Kansas U 1897)	Syracuse, N. Y.
Associate Professor of Physics, Syracuse University		
Edgar Davidson Congdon	A 1907	New York City
Instructor in Embryology, Cornell Medical School		
Ernest Franklin Conway	G 1910	Syracuse, N. Y.
Science Teacher, Central High School		
John Wesley Cuningham	G 1910	Syracuse, N. Y.
Graduate Student in Mathematics, Syracuse University		
Floyd Fiske Decker	G 1906*	Syracuse, N. Y.
Assistant Professor of Mathematics, Syracuse University		
Marion S Dooley	F 1910	Syracuse, N. Y.
Instructor in Physiology, Syracuse University		
Frank Ernest Eldredge	G 1910	Port Jervis, N. Y.
Head of Science, High School		

Neil E Gordon	G 1911	Syracuse, N. Y.
Graduate Student in Mathematics, Syracuse University.		
William Pratt Graham	CF 1906*	Syracuse, N. Y.
Professor of Electrical Engineering, Syracuse University		
George Arthur Hanford	F 1906 (Yale U 1898)	Syracuse, N. Y.
Chemist, G. C. Hanford Manufacturing Company.		
Charles Wesley Hargitt	CF 1906*†	Syracuse, N. Y.
Professor of Zoology, Syracuse University		
George Thomas Hargitt	CF 1906* (Nebraska G 1903)	Evanston, Ill.
Instructor in Zoology, Northwestern University		
Walter David Harris	F 1907* (Nebraska U 1906)	Syracuse, N. Y.
Assistant Professor of Physics, Syracuse University.		
Howard Farnum Hart	CF 1906 (Brown U 1904)	Montclair, N. J.
Instructor in Mathematics, High School.		
Fred W Hartwell	G 1908	New York City
Teacher of Zoology, High School of Commerce		
Frederick Addison Harvey	F 1910 (California U 1905)	Syracuse, N. Y.
Assistant Professor of Physics, Syracuse University		
Robert Henry Haskell	F 1910 (Michigan U 1910)	Syracuse, N. Y.
Warren Witherell Hilditch	F 1909* (Yale G 1909)	New York City
Chief Chemist, Doctor E. E. Smith Laboratory		
Harvey Nelson Holmes	G 1909	Oxford, N. Y.
Principal of Oxford Academy		
Thomas Cramer Hopkins	CF 1906*† (Stanford A 1904)	Syracuse, N. Y.
Professor of Geology, Syracuse University		
Ruth B Howland	G 1908	Sweet Briar, Va.
Associate Professor of Biology, Sweet Briar College		
Francis A Hulst	F 1907	Brooklyn, N. Y.
Physician		
Louis Cleveland Jordy	G 1910	Kingston, Pa.
Teacher of Chemistry, Wyoming Seminary		
Ernest C Keenan	G 1909	Syracuse, N. Y.
Associate Professor of Mathematics, Syracuse University		
William Kent	F 1906*†	Montclair, N. J.
Consulting Engineer, New York City		
John William Kern	G 1910	Elmira, N. Y.
Teacher of Science, Elmira Free Academy		
Joseph Edward Kirkwood	CF 1906*	Missoula, Mont.
Professor of Botany and Forestry, University of Montana		
Frank Pattengill Knowlton	F 1907*	Syracuse, N. Y.
Professor of Physiology, Syracuse University		
Dyer Barker Lake	G 1909	Alfred, N. Y.
Professor of Chemistry, Alfred University		
James Nelson Lawrence	G 1910	Madison, Wis.
Teaching Fellow in Chemistry, University of Wisconsin		
Louis Lindsey	G 1907	Syracuse, N. Y.
Instructor in Mathematics, Syracuse University		

Archibald Lindsey	G 1910	Washington, D. C.
Assistant Examiner, United States Patent Office		
Nathaniel Edward Loomis	G 1909	Brunswick, Me.
Instructor in Chemistry, Bowdoin College		
James Watt Mavor	G 1910	Syracuse, N. Y.
Instructor in Zoology, Syracuse University		
William Ralph Maxon	A 1906*	Washington, D. C.
Assistant Curator, United States National Museum		
Albert John May	A 1907	Reading, Pa.
Teacher of Science, High School for Boys		
Edwin Florince McCarthy	F 1911 (Michigan U 1911)	Syracuse, N. Y.
Assistant Professor of Forestry, Syracuse University		
Fred Marlen Meader	F 1911	Syracuse, N. Y.
Assistant Professor of Hygiene and Sanitation, Syracuse University		
Elizabeth Read Merritt	G 1911	Syracuse, N. Y.
Graduate Student in Mathematics, Syracuse University		
George Frederick Metzler	F 1908*	Syracuse, N. Y.
Assistant Professor of Mathematics, Syracuse University		
William Henry Metzler	CF 1906*†	Syracuse, N. Y.
Professor of Mathematics, Syracuse University		
Louis Mitchell	F 1910 (Purdue U 1910)	Syracuse, N. Y.
Instructor in Civil Engineering, Syracuse University		
John Harold Morecroft, Jr	G 1907	New York City
Assistant Professor of Electrical Engineering, Columbia University		
Charles Virgin Morrill	F 1908* (Columbia G 1906)	New York City
Instructor in Anatomy, Bellevue Medical College		
John Arthur Northcott	G 1909	Syracuse, N. Y.
Instructor in Mathematics, Syracuse University		
John DeWolf Northrop	G 1910	Washington, D. C.
Geologist, United States Geological Survey		
Paul Cook Nugent	CF 1906*†	Syracuse, N. Y.
Professor of Civil Engineering, Syracuse University		
Charles Packard	G 1907	New York City
Assistant in Zoology, Columbia University		
Ernest Noble Pattee	F 1906*	Syracuse, N. Y.
Professor of Chemistry, Syracuse University		
Henry Allen Peck	F 1908*†	Syracuse, N. Y.
Professor of Astronomy, Syracuse University		
Leigh H Pennington	F 1910* (Michigan U 1906)	Syracuse, N. Y.
Assistant Professor of Botany, Syracuse University		
Clinton W Perry	G 1911	Syracuse, N. Y.
Graduate Student and Fellow in Mineralogy, Syracuse University		
Ruth Laura Phillips	G 1911	Syracuse, N. Y.
Assistant in Zoology, Syracuse University		
Daniel Pratt	G 1906	Syracuse, N. Y.
Assistant Professor of Mathematics, Syracuse University		

Albert Moore Reese	CF 1906*†	Morgantown, W. Va.
Professor of Zoology, University of West Virginia		
Lepine Hall Rice	G 1908	Syracuse, N. Y.
Instructor in Mathematics, Syracuse University		
Charles Henry Richardson	F 1907*	Syracuse, N. Y.
Professor of Mineralogy, Syracuse University		
Edward Drake Roe, Jr	CF 1906*†	Syracuse, N. Y.
Professor of Mathematics, Syracuse University		
Charles Gardner Rogers	CF 1906*	Syracuse, N. Y.
Professor of Physiology, Syracuse University		
Frederick Albert Saunders	CF-1906*	Syracuse, N. Y.
Professor of Physics, Syracuse University		
Harold Dickinson Senior	F 1907*†	New York City
Professor of Anatomy, New York University		
Leon Irwin Shaw	G 1908	Evanston, Ill.
Instructor in Chemistry, Northwestern University		
George H Shepard	F 1908	Syracuse, N. Y.
Dean of College of Applied Science, Syracuse University		
Julian Chase Smallwood	F 1911	Syracuse, N. Y.
Assistant Professor of Experimental Engineering, Syracuse University		
William Martin Smallwood	CF 1906*	Syracuse, N. Y.
Professor of Comparative Anatomy, Syracuse University		
Bertram Garner Smith	F 1907* (Michigan U 1907)	New York City
Graduate Student, Columbia University		
Burnett Smith	F 1907* (Pennsylvania F 1904)	Syracuse, N. Y.
Assistant Professor of Geology, Syracuse University		
Eugene Randolph Smith	A 1906*	Brooklyn, N. Y.
Head of Department of Mathematics, Polytechnic Preparatory School		
Harry Monmouth Smith	CF-1906*	Syracuse, N. Y.
Professor of Chemistry, Syracuse University		
Halbert Severin Steensland	F 1906*	Syracuse, N. Y.
Professor of Pathology and Bacteriology, Syracuse University		
Ralph Edmond Wager	A 1907	De Kalb, Ill.
Head of Biology, Northern Illinois Normal School		
Herbert C Ward	F 1911	Syracuse, N. Y.
Assistant Professor of Bacteriology, Syracuse University		
Herman G Weiskotten	F 1911	Syracuse, N. Y.
Instructor in Pathology, Syracuse University		
Rich Dean Whitney	G 1911	Syracuse, N. Y.
Instructor in Electrical Engineering, Syracuse University		
Wendell Garrett Wilcox	G 1906*	Madison, Wis.
Instructor in Chemistry, University of Wisconsin		

WISCONSIN CHAPTER

UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN

Charter Dated January 18, 1907 Chapter Installed January 18, 1907

HISTORICAL SKETCH

The first concerted movement for the establishment of a chapter of Sigma Xi at the University of Wisconsin took place in October, 1906. There were then twenty-two members of Sigma Xi in the University faculty. These twenty-two men, together with twenty other members of the scientific faculty, petitioned the national organization for a charter in November of the same year. Word was received from President Nichols in December that favorable action had been taken by the various chapters upon the petition from the University of Wisconsin and the charter members were authorized to proceed with the organization of a Chapter of the Society at Wisconsin.

The Chapter was installed by President Nichols January 18, 1907, with a charter membership of forty-two.

The membership of the Society has been drawn from the University faculty and graduate students. No undergraduates have been admitted so far.

H. J. T.

OFFICERS FOR 1911-12

President.....	GEORGE WAGNER
Vice-President.....	RICHARD FISCHER
Recording Secretary.....	GEORGE JACOB DAVIS, JR.
Corresponding Secretary.....	CHARLES ELMER ALLEN
Treasurer.....	JAMES ASTON
Councilor.....	VICTOR LENHER

MEMBERSHIP ROLL

Bennett Mills Allen	CF 1907* (Chicago C 1903)	Madison, Wis.
Assistant Professor of Zoology, University of Wisconsin		
Charles Elmer Allen	CF 1907*	Madison, Wis.
Professor of Botany, University of Wisconsin		
Martin Fuller Angell	A 1911	Albuquerque, N. M.
Professor of Physics, University of New Mexico		
James Aston	F 1909	Madison, Wis
Instructor in Chemical Engineering, University of Wisconsin		
Louis Fred Augspurger	A 1910	Munich, Germany
Student, University of Munich		
Charles Russell Bardeen	CF 1907*†	Madison, Wis.
Dean of College of Medicine, University of Wisconsin		

- Murray Charles Beebe F 1907 Madison, Wis.
Professor of Electrical Engineering, University of Wisconsin
- Edward Bennett F 1910* Madison, Wis.
Associate Professor of Electrical Engineering, University of Wisconsin
- Edward Asahel Birge CF 1907*† Madison, Wis.
Dean of College of Letters and Science, University of Wisconsin
- Raymond Thayer Birge G 1910 Madison, Wis.
Assistant in Physics, University of Wisconsin
- Eliot Blackwelder CF 1907 (Chicago CG 1903) Madison, Wis.
Associate Professor of Geology, University of Wisconsin
- Harold Cornelius Bradley CF 1907 (Yale F 1903) Madison, Wis.
Assistant Professor of Physiological Chemistry, University of Wisconsin
- James Miller Breckenridge A 1909 Gloucester, N. J.
Research Chemist, Welsbach Light Company
- Howard Stanley Bristol G 1910* Madison, Wis.
Assistant Director, Forest Products Laboratory, University of Wisconsin
- Wade Hampton Brown A 1909* Chapel Hill, N. C.
Professor of Pathology, University of North Carolina
- Herbert Earle Buchanan A 1909 Knoxville, Tenn.
Professor of Mathematics, University of Tennessee
- Charles Henry Bunting F 1908* Madison, Wis.
Professor of Pathology, University of Wisconsin
- Charles Frederick Burgess CF 1907*† Madison, Wis.
Professor of Chemical Engineering, University of Wisconsin
- Horace Thomas Burgess F 1909 Madison, Wis.
Instructor in Mathematics, University of Wisconsin
- Earl Smead Burnett F 1908 Madison, Wis.
Instructor in Physics, University of Wisconsin
- Ormond Bourke Butler F 1910* Madison, Wis.
Instructor in Horticulture, University of Wisconsin
- Alexander Graham Christie F 1911 Madison, Wis.
Assistant Professor of Steam Engineering, University of Wisconsin
- Arthur Brooks Clawson CA 1907 (Michigan G 1905) Washington, D. C.
Assistant, Bureau of Soils
- Mcgarvey Cline F 1909 Madison, Wis.
Director, Forest Products Laboratory, University of Wisconsin
- Leon Jacob Cole F 1909* Madison, Wis.
Associate Professor of Experimental Breeding, University of Wisconsin
- George Cary Comstock F 1909*† Madison, Wis.
Professor of Astronomy and Director of Graduate School, University of Wisconsin
- William Henry Collins A 1911 Ottawa, Canada
Assistant Geologist, Canadian Geological Survey
- Guy Conrey G 1911 Madison, Wis.
Chemist, Wisconsin Soils Survey
- Charles Ives Corp G 1910 Madison, Wis.
Assistant in Hydraulics, University of Wisconsin

James Nimrod Currie	F 1909	Madison, Wis.
Instructor in Chemistry, University of Wisconsin		
Thomas Matthew Dahm	G 1909	Madison, Wis.
Assistant in Physics, University of Wisconsin		
William Willard Daniells	F 1907*†	Madison, Wis.
Emeritus Professor of Chemistry, University of Wisconsin		
George Jacob Davis, Jr	CA 1907 (Cornell U 1902)	Madison, Wis.
Assistant Professor of Hydraulic Engineering, University of Wisconsin		
John Jefferson Davis	F 1911	Madison, Wis.
Curator of Herbarium, University of Wisconsin		
Horace Grove Deming	F 1910	Madison, Wis.
Instructor in Chemistry, University of Wisconsin		
Rollin Henry Denniston	F 1907*	Madison, Wis.
Assistant Professor of Botany, University of Wisconsin		
Robert Conrad Disque	F 1911	Madison, Wis.
Instructor in Electrical Engineering, University of Wisconsin		
Howard Waters Doughty	CF 1907* (Missouri F 1906)	Amherst, Mass.
Assistant Professor of Chemistry, Amherst College		
Linnaeus Wayland Dowling	F 1907*	Madison, Wis.
Assistant Professor of Mathematics, University of Wisconsin		
Arnold Dresden	F 1911	Madison, Wis.
Instructor in Mathematics, University of Wisconsin		
Emil Oscar Ellingson	F 1911	Madison, Wis.
Instructor in Chemistry, University of Wisconsin		
John Augustine English Eyster	F 1911	Madison, Wis.
Professor of Physiology, University of Wisconsin		
Edward Holyoke Farrington	CF 1906	Madison, Wis.
Professor of Dairy Husbandry, University of Wisconsin		
Nevin Melanchthon Fenneman	CA 1907* (Chicago A 1904)	Cincinnati, Ohio
Professor of Geology, University of Cincinnati		
Richard Fischer	CF 1906*	Madison, Wis.
Professor of Pharmacy, University of Wisconsin		
Albert Stowell Flint	F 1907*†	Madison, Wis.
Astronomer, University of Wisconsin		
William Elmer Forsythe	F 1909	Madison, Wis.
Instructor in Physics, University of Wisconsin		
William Dodge Frost	F 1906*	Madison, Wis.
Associate Professor of Bacteriology, University of Wisconsin		
Gordon Scott Fulcher	F 1909* (Northwestern G 1905)	Madison, Wis.
Instructor in Physics, University of Wisconsin		
Caleb Allen Fuller	CF 1907 (Brown G 1901)	Madison, Wis.
Assistant Professor of Bacteriology, University of Wisconsin		
Otis Amsden Gage	F 1907* (Cornell G 1904)	Madison, Wis.
Assistant Professor of Physics, University of Wisconsin		
Wilson Parham Gee	A 1911	Clemson College, S. C.
Assistant Zoologist, South Carolina Agricultural Experiment Station		

- Edward Martinus Gilbert F 1911 Madison, Wis.
Assistant Professor of Botany, University of Wisconsin
- Edward Merriam Griffith F 1909 Madison, Wis.
State Forester, Lecturer in Forestry, University of Wisconsin
- Michael Frederick Guyer F 1911 Madison, Wis.
Professor of Zoology, University of Wisconsin
- Edward Bennington Hall F 1908 Springfield, Mo.
Professor of Geology, Drury College
- Roy Dykes Hall CA 1906 (Pennsylvania G 1904) Bloomfield, N. J.
Westinghouse Lamp Company
- Carl Hambuechen A 1909 Madison, Wis.
With Northern Chemical Engineering Company
- Bernard Wernick Hammer A 1910 Ames, Ia.
Dairy Bacteriologist, Iowa State College
- Robert Almer Harper CA 1906*† New York City
Professor of Botany, Columbia University
- Edwin Bret Hart F 1907 Madison, Wis.
Professor of Agricultural Chemistry, University of Wisconsin
- Robert Harvie, Jr A 1911 Ottawa, Canada
Assistant Geologist, Canadian Geological Survey.
- Edwin George Hastings CF 1907 (Ohio A 1905) Madison, Wis.
Associate Professor of Bacteriology, University of Wisconsin
- Francis Thompson Havard F 1910 Madison, Wis.
Assistant Professor of Mining Engineering, University of Wisconsin
- Lee Fred Hawley F 1909 Madison, Wis.
Chemist, Forest Products Laboratory
- William Arnon Henry F 1907*† Madison, Wis.
Emeritus Professor of Agriculture, University of Wisconsin
- Charles Warren Hill F 1909 Madison, Wis.
Instructor in Chemistry, University of Wisconsin
- Conrad Hoffman F 1909 Madison, Wis.
Assistant Professor of Agricultural Bacteriology, University of Wisconsin
- Edwin Chapin Holden F 1909 Madison, Wis.
Professor of Mining Engineering, University of Wisconsin
- Samuel Jackson Holmes CF 1907*† (Michigan F 1903) Madison, Wis.
Assistant Professor of Zoology, University of Wisconsin
- William Otis Hotchkiss F 1907 Madison, Wis.
State Geologist, Geological and Natural History Survey
- Winfield Scott Hubbard A 1910 Ann Arbor, Mich.
Instructor in Pharmacy, University of Michigan
- Clarence John Humphrey F 1908* Madison, Wis.
Pathologist, Forest Products Laboratory
- Leonard Rose Ingersoll F 1907 Madison, Wis.
Associate Professor in Physics, University of Wisconsin
- Cyril Methodius Jansky F 1908* Madison, Wis.
Associate Professor of Electrical Engineering, University of Wisconsin

Dugald Caleb Jackson	CA 1907*†	Boston, Mass.
Professor of Electrical Engineering, Massachusetts Institute of Technology		
Joseph Jastrow	CF 1907*†	Madison, Wis.
Professor of Psychology, University of Wisconsin		
Lewis Ralph Jones	F 1910	Madison, Wis.
Professor of Plant Pathology, University of Wisconsin		
Chauncey Juday	CF 1907 (Colorado CF 1905)	Madison, Wis.
Biologist, Wisconsin State Natural History Survey		
Louis Kahlenberg	F 1907*†	Madison, Wis.
Professor of Chemistry, University of Wisconsin		
William Herbert Kempfer	A 1909 (Michigan G 1906)	Madison, Wis.
Assistant, Forest Products Laboratory		
William Spauling Kinne	F 1911	Madison, Wis.
Assistant Professor of Structural Engineering, University of Wisconsin		
Charles Townsend Kirk	A 1909*	New York City
Assistant Professor of Geology, Normal College of City of New York		
David Klein	F 1908	Madison, Wis.
Instructor in Chemistry, University of Wisconsin		
Alfred Edward Koenig	F 1910	Madison, Wis.
Instructor in Chemistry, University of Wisconsin		
William F. Koelker	F 1907	
(Deceased 1911)		
Otto Louis Kowalke	F 1909	Madison, Wis.
Assistant Professor of Chemical Engineering, University of Wisconsin		
Francis Craig Krauskopf	F 1909	Madison, Wis.
Assistant Professor of Chemistry, University of Wisconsin		
Edward Kremers	F 1907*†	Madison, Wis.
Professor and Director of Course in Pharmacy, University of Wisconsin		
Frederick William Kressman	G 1911	Madison, Wis.
Chemist, Forest Products Laboratory		
Alfred Emil Kundert	A 1909	Madison, Wis.
Chemist, Dairy and Food Commission of Wisconsin		
Charles Kenneth Leith	CF 1907*†	Madison, Wis.
Professor of Geology, University of Wisconsin		
Victor Lenher	CF 1907*	Madison, Wis.
Professor of Chemistry, University of Wisconsin		
Charles Edward Lewis	A 1907 (Cornell G 1904)	Orono, Me.
Associate Plant Pathologist, Experiment Station		
Jesse Talbot Littleton, Jr	A 1909*	Ann Arbor, Mich.
Instructor in Physics, University of Michigan		
Arthur Solomon Loevenhart	F 1909*	Madison, Wis.
Professor of Pharmacology and Toxicology, University of Wisconsin		
John Givan Davis Mack	CF 1907 (Cornell A 1888)	Madison, Wis.
Professor of Machine Design, University of Wisconsin		
Charles August Mann	F 1911	Madison, Wis.
Instructor in Chemical Engineering, University of Wisconsin		

- Herman William March F 1907 (Michigan G 1905) Madison, Wis.
Assistant Professor of Mathematics, University of Wisconsin
- William Stanley Marshall F 1907* Madison, Wis.
Associate Professor of Entomology, University of Wisconsin
- Lawrence Martin F 1908 Madison, Wis.
Assistant Professor of Geology, University of Wisconsin
- Max Mason F 1908* Madison, Wis.
Professor of Mathematical Physics, University of Wisconsin
- Joseph Howard Mathews F 1909 Madison, Wis.
Assistant Professor of Physical Chemistry, University of Wisconsin
- Edward Rose Maurer F 1907† Madison, Wis.
Professor of Mechanics, University of Wisconsin
- Russell Smith McBride F 1908 (Minnesota U 1908) Madison, Wis.
Assistant in Chemistry, University of Wisconsin
- George Vest McCauley G 1908 Madison, Wis.
- Elmer Verner McCollum F 1907 (Kansas U 1902) Madison, Wis.
Associate Professor of Agricultural Chemistry, University of Wisconsin
- Andrew Friedley McLeod CF 1907 (Chicago G 1905) Beloit, Wis.
Instructor in Chemistry, Beloit College
- Daniel Webster Mead CA 1907 Madison, Wis.
Professor of Engineering, University of Wisconsin
- Warren Judson Mead F 1908 Madison, Wis.
Assistant Professor of Geology, University of Wisconsin
- Walter Joseph Meek F 1908* Madison, Wis.
Assistant Professor of Physiology, University of Wisconsin
- Irving E Melhus F 1911 Madison, Wis.
Instructor in Plant Pathology, University of Wisconsin
- Charles Elwood Mendenhall F 1907* Madison, Wis.
Professor of Physics, University of Wisconsin
- Eric Rexford Miller F 1909* Madison, Wis.
Lecturer in Meteorology, University of Wisconsin
- William Snow Miller CF 1907* Madison, Wis.
Associate Professor of Anatomy, University of Wisconsin
- Herbert Fisher Moore CA 1906 (Cornell U 1909) Urbana, Ill.
Assistant Professor of Mechanics, University of Illinois
- Seth Enoch Moody CA 1906 (Yale G 1906) St. Louis, Mo.
Assistant City Chemist
- Fred Ludwig Musback G 1911 Madison, Wis.
Field Man, Reconnaissance Work, Wisconsin Soils Survey
- Walter Nebel F 1911 Madison, Wis.
Assistant in Chemistry, University of Wisconsin
- Edgar William Olive CA 1907* Brookings, S. D.
Professor of Botany, South Dakota Agricultural College
- James Bertram Overton CF 1907* Madison, Wis.
Assistant Professor of Botany, University of Wisconsin
- William David Pence F 1907† Madison, Wis.
Professor of Railway Engineering, University of Wisconsin

James David Phillips	F 1907	Madison, Wis.
Assistant Dean, Professor of Drawing, University of Wisconsin		
John Reese Price	F 1909	Madison, Wis.
Assistant Professor of Electrical Engineering, University of Wisconsin		
Mazýck Porcher Ravenel	F 1908*†	Madison, Wis.
Director of State Hygienic Laboratory, University of Wisconsin		
Louis Ehrhart Reber	F 1909†	Madison, Wis.
Dean of Extension Division, University of Wisconsin		
Arthur William Richter	CF 1906	Madison, Wis.
Professor of Experimental Engineering, University of Wisconsin		
Ruric Charles Roark	G 1910	Madison, Wis.
John Ransom Roebuck	F 1908	Madison, Wis.
Instructor in Physics, University of Wisconsin		
Harry Luman Russell	F 1907*†	Madison, Wis.
Dean of College of Agriculture, University of Wisconsin		
James Glossbrenner Sanders	F	Madison, Wis.
Assistant Professor of Economic Entomology, University of Wisconsin		
Emil Peter Sandsten	CF 1907* (Minnesota G 1898)	Madison, Wis.
Professor of Horticulture, University of Wisconsin		
Herbert Brooks Sanford	F 1911	Madison, Wis.
Instructor in Electrical Engineering, University of Wisconsin		
Leon Irwin Shaw	A 1909 (Syracuse G 1908)	Evanston, Ill.
Instructor in Chemistry, Northwestern University		
Frederick Lafayette Shinn	CA 1907 (Indiana F 1905)	Eugene, Ore.
Assistant Professor of Chemistry, University of Oregon		
Ernest Brown Skinner	F 1907*	Madison, Wis.
Associate Professor of Mathematics, University of Wisconsin		
Charles Sumner Slichter	CF 1907*†	Madison, Wis.
Professor of Applied Mathematics, University of Wisconsin		
Alpheus Wilson Smith	A 1906 (Ohio F 1909)	Columbus, Ohio
Assistant Professor of Physics, Ohio State University		
Bertram Garner Smith	A 1909*	New York City
Graduate Student, Columbia University		
Edwin Raymond Smith	CA 1907 (Illinois U 1905)	State College, Pa.
Assistant Professor of Mathematics, Pennsylvania State College		
Leonard Sewall Smith	F 1907*	Madison, Wis.
Associate Professor of Engineering, University of Wisconsin		
Benjamin Warner Snow	CF 1907* (Cornell A 1888)	Madison, Wis.
Professor of Physics, University of Wisconsin		
Daniel Starch	F 1906*	Madison, Wis.
Instructor in Psychology, University of Wisconsin		
Harry Steenbock	F 1910	Madison, Wis.
Instructor in Agricultural Chemistry, University of Wisconsin		
Edward Steidtmann	F 1908	Madison, Wis.
Assistant Professor of Geology, University of Wisconsin		

- Arlow Burdette Stout A 1910 New York City
Director of Laboratories, Botanical Garden
- Charles William Stoddart A 1907 State College, Pa.
Professor of Chemistry, Pennsylvania State College
- Henry Earl Surface F 1911 Madison, Wis.
- Albert Hoyt Taylor A 1907 Grand Forks, N. D.
Professor of Physics, University of North Dakota
- Earle Melvin Terry F 1909* Madison, Wis.
Assistant Professor of Physics, University of Wisconsin
- Halsten Joseph Berford Thorkelson F 1907 Madison, Wis.
Associate Professor of Steam Engineering, University of Wisconsin
- Carl Clapp Thomas F 1908*† (Cornell G 1895) Madison, Wis.
Professor of Steam Engineering, University of Wisconsin
- Frederick Turville Thwaites G 1909 Madison, Wis.
- Charles Austin Tibbals, Jr A 1908 Chicago, Ill.
Assistant Professor of Chemistry, Armour Institute of Technology
- Joseph Douglass Trueman G 1910 Madison, Wis.
- Edward Joseph Tully G 1910 Madison, Wis.
Chemist, State Hygienic Laboratory, University of Wisconsin
- Frederick Eugene Turneaure CF 1907*† (Cornell U 1889) Madison, Wis.
Dean, College of Engineering, University of Wisconsin
- Anthony Lisenhard Underhill A 1909* Minneapolis, Minn.
Assistant Professor of Mathematics, University of Minnesota
- Charles Richard Van Hise CF 1907*† Madison, Wis.
President, University of Wisconsin
- Edward Burr Van Vleck F 1907*† Madison, Wis.
Professor of Mathematics, University of Wisconsin
- Charles T Vorhies A 1907 Salt Lake City, Utah
Professor of Zoology, Utah State University
- Joseph Henry Vosskuehler CF 1907 (Ohio U 1900) Madison, Wis.
Assistant Professor of Machine Design, University of Wisconsin
- George Wagner CF 1907* (Kansas U 1899) Madison, Wis.
Assistant Professor of Zoology, University of Wisconsin
- Harlow Leslie Walster F 1911 Madison, Wis.
Instructor in Soils, University of Wisconsin
- James Henri Walton F 1907* (Illinois CF 1903) Madison, Wis.
Associate Professor of Chemistry, University of Wisconsin
- James Webster Watson F 1911 Madison, Wis.
Assistant Professor of Electrical Engineering, University of Wisconsin
- Oliver Patterson Watts F 1907 Madison, Wis.
Assistant Professor of Applied Electro-chemistry, University of Wisconsin
- Samuel Weidman F 1907* Madison, Wis.
Geologist of the State Geological Survey, University of Wisconsin
- Howard Frederick Weiss G 1905 Madison, Wis.
Assistant Director, Forest Products Laboratory

Ray Hughes Whitbeck	F 1909	Madison, Wis.
Assistant Professor of Physiography and Geography		
Andrew Robinson Whitson	CF 1907*	Madison, Wis.
Professor of Soils, University of Wisconsin		
Wendell Garrett Wilcox	F 1907 (Syracuse G 1906)	Madison, Wis.
Instructor in Chemistry, University of Wisconsin		
Alexander Newton Winchell	F 1908*	Madison, Wis.
Professor of Mineralogy and Petrology, University of Wisconsin		
Morton Owen Withey	F 1910	Madison, Wis.
Assistant Professor of Mechanics, University of Wisconsin		
Henry Charles Wolff	F 1911	Madison, Wis.
Assistant Professor of Mathematics, University of Wisconsin		
Fritz Wilhelm Woll	F 1907*†	Madison, Wis.
Professor of Agricultural Chemistry, University of Wisconsin		
Otto Julius Zobel	G 1910	Madison, Wis.
Fellow in Physics, University of Wisconsin		

WASHINGTON CHAPTER

UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON

Charter Dated January 4, 1907

Chapter Installed April 24, 1907

HISTORICAL SKETCH

On March 15, 1906, the Science Club, composed of twenty-six members of the faculty of the University of Washington, the state university located at Seattle, Washington, applied to the Society of Sigma Xi for a charter. The petition was acted upon favorably and President David Starr Jordan, of Leland Stanford, Junior, University installed the Chapter and presented the charter, his address on that occasion being upon The Human Harvest.

In June, 1910, Professor Alexander Smith of the University of Chicago delivered the annual address.

M. R.

OFFICERS FOR 1911-12

President.....	ELMER JAMES McCAUSTLAND
Vice-President.....	JOHN WEINZIRL
Recording Secretary.....	ROBERT EVSTAFIEFF ROSE
Corresponding Secretary.....	HERMAN CAMPBELL STEVENS
Treasurer.....	GEORGE SAMUEL WILSON
Councilor.....	HENRY LANDES

MEMBERSHIP ROLL

Eric Temple Bell	G 1908	Eureka, Cal.
Henry Kreitzer Benson	CF 1907 (Columbia G 1907)	Seattle, Wash.
Associate Professor of Chemistry, University of Washington		
Nathan Doud Blair	U 1911	Schenectady, N. Y.
Testing Engineer, General Electric Company		
Henry Lee Bowlby	CF 1907	Seattle, Wash.
Instructor in Civil Engineering, University of Washington		
Henry Louis Brakel	CF 1907	Seattle, Wash.
Instructor in Physics, University of Washington		
Irvin Walter Brandel	CF 1907	Seattle, Wash.
Chemist in Commercial Work, Brandel Chemical Company		
Edward Everett Bugbee	F 1907	Boston, Mass.
Assistant Professor of Metallurgy, Massachusetts Institute of Technology		
Horace Greeley Byers	CF 1907*	Seattle, Wash.
Professor of Chemistry, University of Washington		
Lois Clark	G 1910	Burlington, Wash.
Teacher of Science, High School		

Anna Edith Corey (Mrs Lester Sweet)	G 1907 Principal of High School	Skaguay, Alaska
Magnus Tate Crawford	U 1907 Electrical Engineer	Seattle, Wash.
William Maurice Dehn Assistant Professor of Chemistry, University of Washington	F 1908 (Illinois CF 1903)	Seattle, Wash.
Edward Harold Denny Engineering Department, University of Washington	U 1911	Seattle, Wash.
Albert Haskin Dewey Instructor in Pharmacy, University of Washington	U 1909	Seattle, Wash.
Everett Owen Eastwood Professor of Mechanical Engineering, University of Washington	CF 1907	Seattle, Wash.
Louis Henry Fee Teacher of Science, Everett High School	G 1909	Everett, Wash.
Charles Reinhard Fettke Assistant in Geology, Columbia University	U 1910	New York City
Theodore Christian Frye Professor of Botany, University of Washington	CF 1907*	Seattle, Wash.
Guy Flaherty Engineer	U 1909	Roslyn, Wash.
Almon Homer Fuller Dean of College of Engineering, University of Washington	CF 1907	Seattle, Wash.
Charles Henry Gordon Professor of Geology, University of Tennessee	CF 1907*† (Nebraska F 1902)	Knoxville, [Tenn.]
James Edward Gould Associate Professor of Mathematics, University of Washington	CF 1907	Seattle, Wash.
Lars Olai Grondahl Instructor in Physics, University of Washington	F 1909	Seattle, Wash.
Bessie Eleanor Crowe (Mrs Frank Marion Morrison)	CG 1907 (Kansas U 1897)	Seattle, Wash.
Eliot Snell Hall Associate Professor of Chemistry, Amherst College	F 1907 (Chicago G 1905)	Amherst, Mass.
James Harold Hance Assistant Geologist, United States Geological Survey	U 1908	Washington, D. C.
Charles William Harris Instructor in Civil Engineering, University of Washington	F 1907 (Cornell U 1905)	Seattle, Wash.
Raymond Allen Hopkins Electrical Engineer	U 1910	Seattle, Wash.
Arthur Day Howard Assistant Professor of Zoology, University of Washington	F 1909	Seattle, Wash.
Alonzo Keyt Isham Consulting Engineer	CF 1906	Seattle, Wash.
Charles Willis Johnson Dean, College of Pharmacy, University of Washington	CF 1907* (Michigan CG 1903)	Seattle, Wash.
Frank Edward Johnson Instructor in Electrical Engineering, University of Washington	CF 1907 (Minnesota U 1900)	Seattle, Wash.

Sarah Edna Kahan	G 1907	Seattle, Wash.
Instructor in Chemistry, Broadway High School		
Enoch Karrer	U 1911	Seattle, Wash.
Physics Department		
Sebastian Karrer	U 1911	Seattle, Wash.
Physics Department		
Trevor Kincaid	CF 1907†	Seattle, Wash.
Professor of Zoology, University of Washington		
Kurt Friedrich Johannes Kirsten	U 1909	Seattle, Wash.
Electrical Engineer		
Henry Granger Knight	A 1908	Laramie, Wyo.
Director of Experiment Station, University of Wyoming		
Henry Landes	CF 1907*†	Seattle, Wash.
Professor of Geology, University of Washington		
Margaret Mae MacLachlan	U 1908	Seattle, Wash.
Teacher of Chemistry, Queen Anne High School		
Carl Edward Magnusson	CF 1907 (Minnesota U 1896)	Seattle, Wash.
Professor of Electrical Engineering, University of Washington		
Charles Earl Mallory	U 1909	Seattle, Wash.
Instructor in Electrical Engineering, University of Washington		
Elmer James McCaustland	F 1908 (Cornell U 1897)	Seattle, Wash.
Professor of Municipal Engineering, University of Washington		
John Merritt McGee	G 1910	Laramie, Wyo.
Assistant State Chemist, University of Wyoming		
Harry Levi Mead	CF 1907 (Columbia U 1905)	Avino, Mexico
Superintendent, Avino Mines of Mexico		
Frank Garner Miller	F 1908*† (Nebraska F 1906)	Seattle, Wash.
Professor of Forestry, University of Washington		
Charles Church More	CF 1907	Seattle, Wash.
Professor of Civil Engineering, University of Washington		
Robert Edouard Moritz	CF 1906* (Nebraska F 1899)	Seattle, Wash.
Professor of Mathematics, University of Washington		
Bessie Eleanor Growe Morrison	CG 1907 (Kansas U 1897)	Seattle, Wash.
(Mrs Frank Marion Morrison)		
Frank Marion Morrison	CF 1907	Seattle, Wash.
Assistant Professor of Mathematics, University of Washington		
Frederick Arthur Osborn	CF 1907* (Michigan G 1907)	Seattle, Wash.
Professor of Physics, University of Washington		
H L Osterud	U 1909	New York City
Fellow in Zoology, Columbia University		
Arthur Baker Stanley Pope	U 1908	Ellensburg, Wash.
Principal of High School		
Charles William Prentiss	CF 1907*	Chicago, Ill.
Assistant Professor of Anatomy, Northwestern University Medical School		
John Charles Rathbun	U 1908	Tacoma, Wash.
Engineer		

- Milnor Roberts CF 1907 Seattle, Wash.
Dean of School of Mines, University of Washington
- Robert Evstafieff Rose F 1909 Seattle, Wash.
Assistant Professor of Chemistry, University of Washington
- Lloyd Leroy Smail U 1911 Seattle, Wash.
Fellow in Mathematics, University of Washington
- Herman Campbell Stevens CF 1907* (Cornell G 1903) Seattle, Wash.
Assistant Professor of Psychology, University of Washington
- George Robert Stranberg U 1911 Seattle, Wash.
Instructor in Civil Engineering, University of Washington
- Anna Edith Corey Sweet G 1907 Skaguay, Alaska
(Mrs Lester Sweet) Principal of High School
- Rolf Thelen CF 1907 (California U 1905) Washington,
United States Forest Service [D. C.]
- William Thompson U 1908 Pittsburgh, Pa.
Chemist, Pittsburgh Testing Laboratories, Ltd
- Harlan Leo Trumbull U 1907 Chicago, Ill.
Fellow in Kent Chemical Laboratory, University of Chicago
- Walter Calvin Wagner U 1907 Seattle, Wash.
Instructor in Electrical Engineering, University of Washington
- Charles Edwin Weaver F 1908 (California G 1905) Seattle, Wash.
Instructor in Geology, University of Washington
- John Weinzirl F 1907 Seattle, Wash.
Associate Professor of Bacteriology, University of Washington
- George Winchester F 1906 (Chicago G 1905) Washington, Pa.
Professor of Physics, Washington and Jefferson College
- Hugo Winkenwerder F 1910 Seattle, Wash.
Associate Professor of Forestry, University of Washington
- George Samuel Wilson F 1907 (Nebraska G 1906) Seattle, Wash.
Assistant Professor of Mechanical Engineering, University of Washington

WORCESTER CHAPTER

WORCESTER POLYTECHNIC INSTITUTE, WORCESTER, MASSACHUSETTS

Charter Dated April 18, 1908

Chapter Installed May 7, 1908

HISTORICAL SKETCH

The Worcester Chapter was installed by President Edward L. Nichols, who delivered on that occasion a public address, his subject being Engineering a By-Product of Science. Eighteen members of the Faculty and instructional force were charter members.

Sixteen new members were initiated on June 12, and at this time the annual address was delivered by Professor Arthur G. Webster, of Clark University, the subject of which was The Object of Scientific Research.

In 1909, at a regular meeting of the Chapter on April 29, twenty-one new members were initiated. On the evening of June 9, at the annual meeting of the Chapter, an address was delivered by Professor George F. Swain, Director of the Department of Civil Engineering, Massachusetts Institute of Technology, on the subject of Research in Engineering.

Fifteen new members were initiated on April 27, 1910. The address at the annual meeting of June 8, following, was delivered by Doctor A. D. Risteen, taking as his subject What Things are Worth Doing?

A. D. B.

OFFICERS FOR 1911-12

President.....	GEORGE HENRY HAYNES
Vice-President.....	WALTER LOUIS JENNINGS
Recording Secretary.....	ALTON LINCOLN SMITH
Corresponding Secretary.....	ARTHUR DEXTER BUTTERFIELD
Treasurer.....	CLARENCE ALBERT PIERCE
Councilor.....	ARTHUR WOOLSEY EWELL

MEMBERSHIP ROLL

Erwin Avery Adams	U 1908	Toronto, Canada
Canadian Fairbanks-Morse Company, Ltd.		
Leon George Adams	U 1909	Brooklyn, N. Y.
Inspector, New Haven and Hartford Railroad		
Charles Metcalf Allen	CF 1908*	Worcester, Mass.
Professor of Hydraulic Engineering, Worcester Polytechnic Institute		
Alfred Leroy Atherton	U 1911	Pittsburgh, Pa.
Student Apprentice, Westinghouse Electric and Manufacturing Company		
Carlyle Adams Atherton	U 1910	Pittsburgh, Pa.
Student Apprentice, Westinghouse Electric and Manufacturing Company		
Walter Irving Barrows	U 1909	Milton, N. H.
Designing Engineer, Reinforced Concrete Construction		

Edwin Donald Beach	U 1911	Orange, N. J.
Inspector, Plant Department, Western Union Telegraph Company		
William Warren Bird	CF 1908*	Worcester, Mass.
Professor of Mechanical Engineering, Worcester Polytechnic Institute		
Frederic Bonnet, Jr	CF 1908*	Worcester, Mass.
Assistant Professor of Chemistry, Worcester Polytechnic Institute		
Arthur Dexter Butterfield	F 1909*	Worcester, Mass.
Professor of Mathematics, Worcester Polytechnic Institute		
Daniel Francis Calhane	F 1909	Worcester, Mass.
Instructor in Industrial and Electro-chemistry, Worcester Polytechnic		
David Ellsworth Carpenter	U 1911	Pittsburgh, Pa.
Student Apprentice, Westinghouse Electric and Manufacturing Company		
Albert Theodore Childs	U 1908	Orono, Me.
Assistant Professor, Electrical Engineering, University of Maine		
Robert Titcomb Cole	U 1908	Buffalo, N. Y.
Engineer, Rockwood Sprinkler Company		
Levi Leonard Conant	CF 1908*†	Worcester, Mass.
Acting President and Professor of Mathematics, Worcester Polytechnic		
Harold Perry Conklin	U 1911	Hartford, Conn.
Inspector, Factory Insurance Association		
Lyman Francis Copeland	A 1908	Chicago, Ill.
Bridge Department, Illinois Central Railroad		
Herbert Kimball Cummings	U 1910	Worcester, Mass.
Instructor in Physics, Worcester Polytechnic Institute		
Philip Stone Cushing	U 1911	Cambridge, Mass.
Graduate Student, School of Applied Science, Harvard University		
Christian Dantsizen	U 1910	Schenectady, N. Y.
Research Department, General Electric Company		
William Austin Darrah	U 1908	Pittsburgh, Pa.
Electrical Engineer, Westinghouse Electric and Manufacturing Company		
Royal William Davenport	U 1908	Portland, Ore.
With United States Geological Survey		
Lewis Davis	U 1911	Boston, Mass.
Graduate Student in Chemistry, Massachusetts Institute of Technology		
Alexander Wilmer Duff	CF 1908*†	Worcester, Mass.
Professor of Physics, Worcester Polytechnic Institute		
Edmund Arthur Engler	CF 1908*†	St. Louis, Mo.
Washington University		
Arthur Woolsey Ewell	CF 1908*	Worcester, Mass.
Professor of Physics, Worcester Polytechnic Institute		
Sidney Woods Farnsworth	U 1908	Pittsburgh, Pa.
General Engineer, Westinghouse Electric and Manufacturing Company		
Lyle Gordon Fear	U 1909	Butte, Mont.
With Westinghouse Electric and Manufacturing Company		
Elmer Henry Fish	G 1909	Worcester, Mass.
Manager, Worcester School of Trades		

- Charles Samuel Frary G 1908 Boston, Mass.
Bay State Belting Company
- Arthur Willard French CF 1908*† Worcester, Mass.
Professor of Civil Engineering, Worcester Polytechnic Institute
- Howard Fowler Fritch U 1910 Boston, Mass.
Bay State Street Railway Company, Time Table Department
- David Lamprey Gallup F 1910 Worcester, Mass.
Assistant Professor of Gas Engineering, Worcester Polytechnic Institute
- Ernest Knight Gladding U 1910 Du Pont, Wash.
With E. I. Du Pont de Nemours Powder Company
- Robert Hutchins Goddard U 1908 Worcester, Mass.
Honorary Fellow in Physics, Clark University
- Charles Francis Goldthwait U 1909 Webster, Mass.
Chemist with S. Slater and Sons, Inc.
- Arthur Greenwood U 1909 Holyoke, Mass.
With Coburn Trolley Track Manufacturing Company
- Romeo Arthur Gris  U 1910 Taunton, Mass.
With Weir Stone Company
- Edward Lee Hancock F 1910
(Deceased 1911)
- Charles Brigham Harrington G 1909 Newtonville, Mass.
Head of Science Department, Newton Technical High School
- John Chapin Harvey U 1908 Worcester, Mass.
Hydraulic Engineer, Worcester Polytechnic Institute
- George Henry Haynes CF 1908† Worcester, Mass.
Professor of Economics and Political Science, Worcester Polytechnic
- Fred Leland Hewes U 1910 Boston, Mass.
With George A. Fuller Company, General Contractors
- Howard Chapin Ives CF 1908*† Worcester, Mass.
Professor of Railroad Engineering, Worcester Polytechnic Institute
- Walter Louis Jennings CF 1908*† Worcester, Mass.
Professor of Organic Chemistry, Worcester Polytechnic Institute
- Harold Merriam King U 1910 Lynn, Mass.
Student Apprentice, General Electric Company
- Leonard Parker Kinnicutt CF 1908*†
(Deceased 1911)
- George Y Lancaster, Jr G 1909 New York City
Inspector, New York Board of Fire Underwriters
- Horace Zebina Landon U 1911 East Walpole, Mass.
With F. W. Bird and Son
- Walter Fred Lawley U 1908 Barksdale, Wis.
Acid Inspector, E. I. Du Pont de Nemours Powder Company
- Charles Thompson Leigh U 1911 Casa Grande, Ariz.
Land Developing
- Donald Howe Mace U 1909 Pittsburgh, Pa.
Engineer, Legal Department, Westinghouse Electric and Manufacturing Co.

- George Francis Martin U 1910 Worcester, Mass.
With Eastern Bridge and Structural Company
- Raymond Kurtz Morley 1911 Urbana, Ill.
Instructor in Mathematics, University of Illinois
- Albert Armstrong Nims U 1908 Rochester, N. Y.
Electrical Engineer, Murphy Electricity Rectifier Company
- George Robert Olshausen CF 1908* (Cornell F 1904) Newark, N. J.
Department of Physics, Princeton University
- Riojo Onuki U 1910 Yokosha Naval Dock Yard, Japan
Engineering Department
- George Norman Palser U 1909 Worcester, Mass.
Draftsman, Eastern Bridge and Structural Company
- Joseph Oliver Phelon CF 1908 (Cornell G 1901) Worcester, Mass.
Professor of Electrical Engineering, Worcester Polytechnic Institute
- Clarence Albert Pierce F 1911 (Cornell 1908) Worcester, Mass.
Assistant Professor of Theoretical Electrical Engineering
- Carleton Allen Read F 1909 Worcester, Mass.
Professor of Steam Engineering, Worcester Polytechnic Institute
- Alexander Hugh Reid U 1911 Milton, N. H.
Draftsman with I. W. Jones, Engineer
- John Allen Remon U 1909 Chicago, Ill.
Assistant Traffic Chief, American Telephone and Telegraph Company
- Albert Sutton Richey CF 1908 Worcester, Mass.
Professor of Electric Railway Engineering, Worcester Polytechnic Institute
- Harold James Riley U 1909 Montreal, Canada
Law Student, Richards, Affleck and Company
- Philip Jones Rowell U 1908 Tacoma, Wash.
Office of Engineer of Maintenance of Way, Northern Pacific Railroad Company
- Francis William Roys U 1909 Worcester, Mass.
Instructor, Department of Mechanical Engineering, Worcester Polytechnic
- George Herbert Ryan U 1908 Millbury, Mass.
- Alton Lincoln Smith CF 1908 Worcester, Mass.
Professor of Drawing and Machine Design, Worcester Polytechnic Institute
- Harold Babbitt Smith CF 1908*† (Cornell U 1891) Worcester, Mass.
Professor of Electrical Engineering, Worcester Polytechnic Institute
- Stanwood Willston Sparrow U 1911 Chicopee Falls, Mass.
Draftsman, Stevens-Duryea Company
- Ralph Edgar Spaulding U 1909 Suffield, Conn.
Partner, E. N. and R. E. Spaulding, Engineering Contractors
- Charles Childs Steere U 1909 Cincinnati, Ohio
Assistant Chemist and Bacteriologist, Filtration Plant
- Lewis Chester Stevens U 1911 Worcester, Mass.
With F. O. Stevens, Manufacturer
- Ray Lewis Stinchfield U 1908 Washington, D. C.
Assistant Examiner, United States Patent Office

- Robert Chauncy Sweetser F 1909 , Worcester, Mass.
Assistant Professor of Analytical Chemistry, Worcester Polytechnic Institute
- Ray Howard Taber U 1909 Pittsburgh, Pa.
Engineer, Westinghouse Electric and Manufacturing Company
- Francis Sylvestre Twomey U 1910 Boston, Mass.
American Telephone and Telegraph Company
- Wallis Cowl Watson U 1910 Schenectady, N. Y.
Student Apprentice, General Electric Company
- Laurence Goddard Wesson U 1910 Washington, D. C.
Chemist, Bureau of Standards
- Ralph Delano Whitmore U 1909 Pekin, China
Teacher of Manual Arts, Ching Hua College
- Joseph Dimock Williams C 1908 (Yale U 1904) Fort Plain, N. Y.
Barge Canal Office
- John Edward Woodbury U 1908 Worcester, Mass.
Vice-President, Woodbury and Company

PURDUE CHAPTER

PURDUE UNIVERSITY, LAFAYETTE, INDIANA

Charter Dated April 28, 1909 Chapter Installed December 21, 1909

HISTORICAL SKETCH

The formal petition for the establishment of a chapter of Sigma Xi at Purdue University was filed April 27, 1908, and bore the signatures of twenty-one members of the faculty, twelve of whom had been members of the organization in other institutions. The charter was issued April 28, 1909, and the Chapter was formally installed by Professor Henry B. Ward on December 21, 1909. Previous to the installation of the Chapter, four of those signing the original petition had severed their connection with the University. Since its organization the Purdue Chapter has maintained two public meetings each semester, one of the meetings being addressed by a member of the local Chapter, the other by a member from some other institution.

S. C.

PUBLICATIONS

By-Laws of the Purdue University Chapter of the Society of the Sigma Xi. pp. 4.

OFFICERS FOR 1911-12

President.....	PERCY NORTON EVANS
Vice-President.....	OTTO FRED HUNZIKER
Recording Secretary.....	CHARLES FRANCIS HARDING
Corresponding Secretary.....	STANLEY COULTER
Treasurer.....	RICHARD GUSTAVUS DUKES
Councillor.....	WILLIAM KENDRICK HATT

MEMBERSHIP ROLL

Joseph Charles Arthur	CF 1909*† (Cornell G 1888)	Lafayette, Ind.
Professor of Vegetable Physiology, Purdue University		
Charles Henry Benjamin	CF 1909*† (Case CF 1904)	Lafayette, Ind.
Dean of Schools of Engineering, Purdue University		
Earl Gordon Bill	F 1911 (Yale G 1906)	Lafayette, Ind.
Instructor in Mathematics, Purdue University		
Frederick John Breeze	U 1910	Lafayette, Ind.
Instructor in Forestry, Purdue University		
Severance Burrage	F 1909	Lafayette, Ind.
Professor of Sanitary Science, Purdue University		
Albert Edward Caswell	F 1911 (Stanford G 1911)	Lafayette, Ind.
Instructor in Physics, Purdue University		
Wilbur Andrew Cochel	CF 1909 (Missouri U 1905)	State College, Pa.
Professor of Agriculture, Pennsylvania State College		

Stanley Coulter	CF1909*†	Lafayette, Ind.
Dean of School of Science, Professor of Biology, Purdue University		
Robert Alexander Craig	F 1910	Lafayette, Ind.
Professor of Veterinary Science, Purdue University		
Richard Gustavus Dukes	F 1910 (Cornell U 1896)	Lafayette, Ind.
Professor of Applied Mechanics, Purdue University		
David Christie Duncan	F 1911 (Michigan U 1911)	Lafayette, Ind.
Assistant Instructor in Physics, Purdue University		
Gilbert Turner Dunklin	U 1911	Altoona, Pa.
Chief Engineer, George Cutter Company		
Oscar Norton Edmondson	U 1910	South Bend, Ind.
Designer, Mechanical Engineer's Office, Pennsylvania Railway Company		
John Benjamin Edmondson	U 1911	Lafayette, Ind.
Assistant in Soil Work, Purdue University		
John Walter Esterline	F 1910	Lafayette, Ind.
President and Manager, Esterline Company		
Percy Norton Evans	CF 1909	Lafayette, Ind.
Professor of Chemistry, Purdue University		
Ervin Sidney Ferry	CF 1909*† (Cornell U 1889)	Lafayette, Ind.
Professor of Physics, Purdue University		
James Burgess Fitch	U 1910	Manhattan, Kan.
Assistant in Dairying, Kansas State Agricultural College		
Frederick Driggs Fuller	F 1911	Lafayette, Ind.
(Chief Deputy) State Chemist, Agricultural Experiment Station		
Michael Joseph Golden	CF 1909	Lafayette, Ind.
Professor of Practical Mechanics, Purdue University		
Arthur Goss	CF 1909	Lafayette, Ind.
Director of Experiment Station, Purdue University		
Frank Gray	U 1911	Madison, Wis.
Assistant in Physics, University of Wisconsin		
Charles Francis Harding	CF 1909*	Lafayette, Ind.
Professor of Electrical Engineering, Purdue University		
Oliver Morton Harrison	U 1911	Lafayette, Ind.
Assistant in Chemistry, Purdue University		
William Kendrick Hatt	CF 1909*† (Cornell G 1891)	Lafayette, Ind.
Professor of Civil Engineering, Purdue University		
Benjamin Hartley Hewit	U 1911	Lafayette, Ind.
Student in Civil Engineering, Purdue University		
James David Hoffman	F 1910	Lafayette, Ind.
Professor of Engineering Design, Purdue University		
Herbert Andrew Hopper	CF 1909 (Cornell U 1903)	Ithaca, N. Y.
Dairy Farming		
Harold Allen Houston	U 1911	Urbana, Ill.
Fellow in Engineering, University of Illinois		
Otto Fred Hunziker	F 1909 (Cornell G 1901)	Lafayette, Ind.
Chief of Dairy Department, Purdue University		

Agassiz Travers Hutchins	U 1910	Denver, Col.
With Denver Gas and Electric Company		
Dean Morreau Jackman	U 1911	Washington, D. C.
Assistant in Chemistry, Bureau of Standards		
Arthur Taber Jones	F 1911	Worcester, Mass.
Fellow in Physics, Clark University		
William James Jones, Jr	F 1910	Lafayette, Ind.
Professor of Agricultural Chemistry, Purdue University		
Alfred Monroe Kenyon	F 1910	Lafayette, Ind.
Professor of Mathematics, Purdue University		
Frank Dunn Kern	CF 1909 (Iowa U 1904)	Lafayette, Ind.
Associate Botanist, Purdue Experiment Station		
Willard Alfred Knapp	CF 1909 (Illinois U 1907)	Lafayette, Ind.
Instructor in Engineering, Purdue University		
Harry Joseph Krueper	U 1910	Fort Wayne, Ind.
Engineer, Pennsylvania Railroad Company		
Llewellyn V Ludy	CF 1909	Madison, Wis.
Acting Professor of Engineering, University of Wisconsin		
Edward Garfield Mahin	F 1910	Lafayette, Ind.
Associate Professor of Chemistry, Purdue University		
William Marshall	F 1911	Lafayette, Ind.
Associate Professor of Mathematics, Purdue University		
Charles Stephen McCarthy	U 1911	Lafayette, Ind.
Student in Civil Engineering, Purdue University		
Albert McWayne	U 1910	Chicago, Ill.
With Holabird and Roche, Architects		
Louis Mitchell	U 1910 (Syracuse F 1910)	Syracuse, N. Y.
Instructor in Civil Engineering, Syracuse University		
Charles Ruby Moore	F 1910	Lafayette, Ind.
Assistant Professor of Electrical Engineering, Purdue University		
Joseph Oskant	F 1911 (Missouri U 1911)	Lafayette, Ind.
Assistant Horticulturist, Purdue University		
Alfred Peter Poorman	F 1909 (Colorado F 1908)	Lafayette, Ind.
Assistant Professor of Mechanics, Purdue University		
Ray Edgar Pumphrey	U 1911	Lafayette, Ind.
Engineer, Lafayette Electric and Manufacturing Company		
Paul Linch Roberts	U 1910	Lafayette, Ind.
Assistant in Dairying, Purdue University		
Lewis Dow Rowell	F 1911 (Case F 1911)	Lafayette, Ind.
Assistant Professor of Electrical Engineering, Purdue University		
Robert Lemuel Sackett	F 1910	Lafayette, Ind.
Professor of Engineering, Purdue University		
Herbert Henry Scofield	F 1911	Lafayette, Ind.
Assistant Professor of Testing Materials, Purdue University		
Glenn Alfred Shook	F 1911	Urbana, Ill.
Instructor in Physics, University of Illinois		

John Harrison Skinner	CF 1909	Lafayette, Ind.
Dean of School of Agriculture, Purdue University		
Harold Ryland Smalley	U 1911	Lafayette, Ind.
Assistant Chemist, Experiment Station, Purdue University		
Albert Smith	F 1910	Lafayette, Ind.
Professor of Structural Engineering, Purdue University		
Albert Bessey Smith	CF 1909 (Nebraska G 1901)	Chicago, Ill.
With Automatic Telephone Company		
Charles Marquis Smith	F 1910	Lafayette, Ind.
Assistant Professor of Physics, Purdue University		
Temple Clifford Smith	U 1910	Newark, N. J.
New York Telephone Company		
George Spitzer	F 1910	Lafayette, Ind.
Dairy Chemist, Purdue University		
Winthrop Ellsworth Stone	CF 1909	Lafayette, Ind.
President, Purdue University		
Oliver Perkins Terry	F 1911	Lafayette, Ind.
Assistant Professor of Physiology, Purdue University		
Oswald Albert Tislow	U 1911	Louisville, Ky.
Draftsman, Louisville Bridge and Iron Company		
Alanson Niles Topping	CF 1909 (Kansas U 1894)	Lafayette, Ind.
Associate Professor of Electrical Engineering, Purdue University		
Guy Alwyn Wainwright	U 1911	Lafayette, Ind.
Student in Engineering, Purdue University		
Clarence Abiathar Waldo	CF 1909*† (Union F 1890)	St. Louis, Mo.
Professor of Mathematics, Washington University		
Luther Cornelius Weeks	CF 1909 (Yale CG 1903)	Lafayette, Ind.
Instructor in Mathematics, Purdue University		
Jacob Westlund	CF 1909* (Yale F 1897)	Lafayette, Ind.
Professor of Mathematics, Purdue University		
Alfred Theodor Wiancko	F 1910	Lafayette, Ind.
Professor of Agronomy, Purdue University		
Ralph Benjamin Wiley	F 1910 (Michigan U 1906)	Lafayette, Ind.
Assistant Professor of Engineering, Purdue University		
Charles Goodrich Woodbury	F 1911	Lafayette, Ind.
Professor of Horticulture, Purdue University		
Gilbert Amos Young	F 1911	Lafayette, Ind.
Acting Professor of Engineering, Purdue University		

WASHINGTON UNIVERSITY CHAPTER

WASHINGTON UNIVERSITY, ST. LOUIS, MISSOURI

Charter Dated May 21, 1910

Chapter Installed June 4, 1910

HISTORICAL SKETCH

In the fall of 1908 the members of Sigma Xi on the faculty of Washington University held a meeting to discuss the advisability of asking for the establishment of a chapter of the Society of the Sigma Xi at the University. As the outcome of this conference a petition was sent to the President of Sigma Xi on December 18, 1908. Just one year later the formal application was presented to the Chairman of the Council, and on May 21, 1910, a letter was received from the President and Dean F. O. Marvin, saying that the last required vote had been received on that day and asking our pleasure in regard to the installation. An invitation was immediately tendered to Dean Marvin to honor us by his presence and to conduct the installation on June 4. Finally, after a dinner served at the Washington Hotel, the Chapter was duly installed.

E. L. O.

OFFICERS FOR 1911-12

President.....	FRANCIS EUGENE NIPHER
Vice-President.....	WILLIAM TRELEASE
Recording Secretary.....	WALTER EDWARD McCOURT
Corresponding Secretary.....	ERNEST LINWOOD OHLE
Treasurer.....	JAMES FRANCIS ABBOTT
Councilor.....	FRANCIS EUGENE NIPHER

MEMBERSHIP ROLL

James Francis Abbott	C 1910* (Chicago U 1906)	St. Louis, Mo.
Professor of Zoology, Washington University		
Arnold Dettman Alt	A 1911	St. Louis, Mo.
Chemist, Mallinckrodt Chemical Works		
Henry W Anderson	U 1911	Urbana, Ill.
Instructor in Plant Pathology, University of Illinois		
William Lewis Breckinridge	A 1911	Chicago, Ill.
Chief Engineer, Chicago, Burlington and Quincy Railway		
Charles Walter Bryan	A 1911	New York City
Chief Engineer, American Bridge Company		
George Dock	F 1911*†	St. Louis, Mo.
Professor of Medicine and Dean of Medical School, Washington University		
William Harrison Emig	U 1911	St. Louis, Mo.
Graduate Student, Washington University		

Victor Emanuel Emmel	F 1911* (Brown G 1905)	St. Louis, Mo.
Associate in Anatomy, Washington University		
Joseph Erlanger	F 1911*† (California G 1910)	St. Louis, Mo.
Professor of Physiology, Washington University		
Percy Leigh Gainey	U 1911	Columbia, Mo.
Instructor in Bacteriology, University of Missouri		
Charles Elijah Galt	U 1911	St. Louis, Mo.
With Christopher and Simpson, Architectural Iron and Foundry Company		
Walter Eugene Garrey	F 1911*	St. Louis, Mo.
Associate in Physiology, Washington University		
Chester Harvey Hardy	U 1911	St. Louis, Mo.
Instructor in Electrical Engineering, Washington University		
Minard Lafever Holman	A 1911*	St. Louis, Mo.
Consulting Engineer, Holman and Laird		
Dennis Emerson Jackson	F 1911 (Indiana G 1903)	St. Louis, Mo.
Associate in Physiology and Pharmacology, Washington University		
George Oscar James	F 1911*†	St. Louis, Mo.
Assistant Professor of Mathematics and Astronomy, Washington University		
Albert Lincoln Johnson	A 1911	Buffalo, N. Y.
Vice-President, Corrugated Bar Company		
Harold Dean Jolley	U 1911	St. Louis, Mo.
Civil Engineer, Reinforced Concrete Company		
Edward Harrison Keiser	C 1910*†	St. Louis, Mo.
Professor of Chemistry, Washington University		
John Jacob Kessler, Jr	U 1911	St. Louis, Mo.
President and General Manager, Dielectric Manufacturing Company		
Walter Charles George Kirchner	A 1911	St. Louis, Mo.
Physician.		
George William Lamke	C 1910 (Michigan U 1906)	St. Louis, Mo.
Assistant Professor of Electrical Engineering, Washington University		
Alexander Suss Langsdorf	C 1910* (Cornell U 1901)	St. Louis, Mo.
Professor of Electrical Engineering and Dean, Washington University		
Frederick Maynard Mann	C 1910	Urbana, Ill.
Professor of Architecture, University of Illinois		
Walter Edward McCourt	C 1910* (Cornell U 1904)	St. Louis, Mo.
Assistant Professor of Geology, Washington University		
LeRoy McMaster	F 1911*	St. Louis, Mo.
Assistant Professor of Chemistry, Washington University		
Stockton Mosby McMurran	U 1911	Washington, D. C.
Pathologist, Bureau of Plant Industry		
George Thomas Moore	CF 1910*†	St. Louis, Mo.
Professor of Botany, Washington University		
Francis Eugene Nipher	CF 1910*† (Iowa A 1905)	St. Louis, Mo.
Professor of Physics, Washington University		
August George Nolte	U 1911	St. Louis, Mo.
Engineer, City Sewer Department		

Ernest Linwood Ohle	CF 1910* (Case F 1904)	St. Louis, Mo.
Professor of Mechanical Engineering, Washington University		
William Woodward Ohlweiler	U 1911	St. Louis, Mo.
Plant Recorder, Missouri Botanical Garden		
Eugene Lindsay Opie	F 1911†*	St. Louis, Mo.
Professor of Pathology, Washington University		
George Herndon Pegram	A 1911†*	New York City
Chief Engineer, Interborough Rapid Transit Company		
Joseph Chappell Rayworth	F 1911 (Yale U 1906)	St. Louis, Mo.
Instructor in Mathematics, Washington University		
Ethel Leigh Richards	U 1911	St. Louis, Mo.
Graduate Student, Washington University		
William Henry Roeber	F 1911*	St. Louis, Mo.
Assistant Professor of Mathematics, Washington University		
Caroline Rumbold	U 1911	Philadelphia, Pa.
Pathologist, Botanical Department, University of Pennsylvania		
Jacob Schramm	U 1911	St. Louis, Mo.
Graduate Student, Washington University		
Arthur Schweier	U 1911	Keokuk, Ia.
Assistant Accounting Engineer, Mississippi River Power Company		
Philip Anderson Shaffer	F 1911 (Cornell F 1910)	St. Louis, Mo.
Professor of Biological Chemistry, Washington University		
Robert James Terry	F 1911*	St. Louis, Mo.
Professor of Anatomy, Washington University		
Harry Freeman Thomson	U 1911	Boston, Mass.
Instructor in Electrical Engineering, Massachusetts Institute of Technology		
William Trelease	CF 1910*† (Cornell A 1886)	St. Louis, Mo.
Professor of Botany, Washington University		
John Lane VanOrnum	CF 1910*	St. Louis, Mo.
Professor of Civil Engineering, Washington University		
Clarence Abiathar Waldo	C 1910*† (Union F 1890; Purdue C 1908)	
Professor of Mathematics, Washington University		[St. Louis, Mo.
Calvin Milton Woodward	C 1910*†	St. Louis, Mo.
Emeritus Professor of Mathematics, Washington University		

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Newfield, Joseph
Oser, Harry Jonas
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Sharp, Harold Gibbons
Smith, Charles Stowell
Symmes, Leslie Webb
Terry, Wallace Irving
Thelen, Paul
VanDyke, Edwin Cooper
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Welch, Harry Valentine
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Davidson, William Mark
Schallenberger, Margaret Everitt

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Hartzell, Mary Kezie

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Johnston, Fred Lyle

SANTA ROSA

Burbank, Luther

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Wright, William Quinby

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STANFORD UNIVERSITY

Abrams, LeRoy
Allardice, Robert Edgar
Angell, Frank
Bahney, Luther Madison
Berry, Samuel Stillman
Blickfeldt, Hans Frederick
Bohart, George Shambaugh
Branner, John Casper
Burlingame, Leonas Lancelot

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Burke, Charles Victor
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 Charters, Samuel Barclay
 Clark, George Archibald
 Coover, John Edgar
 Crawford, Albert Cornellus
 Drake, Noah Fields
 Dudley, William Russell
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 Folsom, David Morrill
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 Jordan, David Starr
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 Lesley, Everett Parker
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 Marx, Charles David
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 (Marx, Mrs. Charles David)
 Mitchell, John Pearce
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 Cockerell, Theodore Dru Alison
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 Guest, Herbert Hartley
 Gundelfinger, George Frederick
 Harrison, Ross Granville
 Harvey, Samuel Clark
 Hawley, Ralph Chipman
 Henderson, Yandell
 Hill, Arthur Joseph
 Hooker, Davenport
 Ingersoll, Charles Anthony
 Irving, John Duer
 Jamieson, George Samuel
 Johns, Carl Oscar
 Johnson, Treat Baldwin
 Jones, Frederick Scheetz
 Kellogg, Willett Harold Jr.
 Keller, Albert Galloway
 Kirkham, William Barri
 Kirschner, Charles Louis
 Kleiner, Simon Bretzfelder
 Kreider, David Albert
 Kunkel, Berverly Waugh
 Langley, Ralph Walker
 Leib, David Deitch
 Lewis, Howard Bishop
 Lockwood, Edwin Hoyt
 Longley, William Raymond
 Low, Albert Sheley
 Lull, Richard Swann
 Lyon, Charles Tyler
 MacCurdy, George Grant
 McClelland, James Farley
 McFarland, Boynton Wells
 MacNeish, Harris Franklin
 Marshall, William Crosby
 Mathewson, Champion Herbert
 Mendel, Lafayette Benedict
 Mendillo, Anthony Joseph
 Neal, Homer Chidsey
 Nicolet, Ben Harry
 Nichols, George Elwood
 North, Herbert Brinkerhoff
 Norton, John Pease
 O'Brien, Thomas Augustine
 Page, Leigh
 Patterson, Robert Alexander
 Peck, Harley T.
 Perry, Clarence Curtiss
 Petrunkevitch, Alexander
 Pierpont, James
 Pirsson, Louis Valentine
 Pitman, Frank Wesley
 Plimpton, Samuel James
 Rettger, Leo Frederick
 Robertson, Heaton Ridgeway
 Roe, Joseph Wickham
 Rowland, Eustis Thacher
 Sanderson, James Cox
 Scarbrough, Marvin McRae
 Schaeffer Jacob Parsons
 Schuchert, Charles

NEW HAVEN—Continued

Scott, Charles Felton
 Seward, Herbert Lee
 Shepard, Norman Arthur
 Shepard, William Kent
 Smirnow, Max Ruskin
 Smith, Percy Franklyn
 Smith, Philip Augustus
 Sperry, Roger Sherman
 Stetson, George Albert
 Storrs, Lucius Seymour
 Sullivan, Jeremiah Barrett
 Suttle, Roscoe Henry
 Tarr, Leonard Merrill
 Tileston, Wilder
 Toumey, James William
 Tracy, John Clayton
 Troxell, Edward L.
 Uhler, Horace Scudder
 Underhill, Frank Pell
 Van Name, Ralph Gibbs
 Walden, Percy Talbot
 Ward, Freeman
 Waters, Everett Oyler
 Webster, Ernest Charles
 Westcott, Niles
 Wheeler, Henry Lord
 Wheeler, Lynde Phelps
 Whittemore, Edward Reed
 Willard, Harley Richard
 Williams, Merton Yarwood
 Wilson, Wallace Alvin
 Wing, Elihu Smith
 Winton, Robert P.
 Woodruff, Lorande Loss
 Wright, William Josiah

NEW LONDON

Dimick, Chester Edward
 Melcer, Ralph Hill
 Smith, Henry DeWitt

NORWALK

Sandford, Arthur

NORWICH

Gallaudet, Edson Fessenden
 Hubbard, James Lanman

ORANGE

Andrew, Irving Atwater

PUTNAM

Bullard, Marguerite Jane

SHELTON

Gordon, William Alexander

SOUTH NORWALK

Swartz, Charles Christian

STAMFORD

Embery, Albert Hamilton, Jr.
 Lockwood, Charles Davenport

STORRS

Currie, James Nimrod
 Jarvis, Chester Deacon
 Newton, Howard Douglas
 Thom, Charles

SUFFIELD

Spaulding, Ralph Edgar

WALLINGFORD

Marsh, Ralph Julian
 Green, Carl Emil
 Sperry, Leavenworth Porter

WASHINGTON DEPOT

Green, Carl Emil

WATERBURY

Bristol, William Henry
 Valentine, William
 Welton, Gertrude Webster
 Wilcox, Levi

WATERTOWN

Martin, James Smith

CONNECTICUT—Continued

WEST HAVEN

Aimes, Hubert Hillary Sufferin
Nason, Frank Lewis

WOODBURY

Hitchcock, Henry Steadman

DELAWARE

NEWARK

Cook, Melville Thruston
Hayward Harry
Houghton, Clinton Osborne
Reed, Raymond Clinton

WILMINGTON

Briggs, Henry Ward

WILMINGTON—Continued

Clark, John Andrew
Elliott, John Earl
Helse, Walter Ferdinand
Quayle, William Osborne
Riley, William Hermon
Thayer, Horace Holden, Jr.

DISTRICT OF COLUMBIA

WASHINGTON

Albrecht, George Moritz
Anderson, Martin E.
Anderson, Robert Van Vleck
Ashley, George Hall
Ayres, Samuel Henry
Badger, Walter L.
Ballard, William Salisbury
Banks, Nathan
Bartsch, Paul
Bastin, Edson Sunderland
Bates, Frederick John
Benjamin, Marucs
Berg, William Nathan
Bergen, Harry Van der Veer
Billard, Charles Louis
Blair, Charles Scofield
Bostrom, Carl Augustus
Boyer, Lawrence Ray
Brand, Charles John
Briggs, Clark Arthur
Brooks, Herbert Barton
Brown, Edgar
Brush, Warren David
Buell, Max Whitney
Bunzell, Herbert Horace
Burgess, George Kimball
Burton, Harry Edward
Butler, Bert S.
Calkins, Frank Cathcart
Calvert, William Robert
Cameron, Frank Kenneth
Capps, Stephen Reid, Jr.
Chamberlain, Edward Blanchard
Chapin, Theodore Sheffield
Charles, Vera Katharine
Chittenden, Alfred Knight
Clapp, Earle Hart
Clark, Burton William
Clark, William Alexander
Clawson, Arthur Brooks
Coblentz, William Weber
Coltman, Robert, Jr.
Conway, John Sebastian
Coville, Elisabeth Boynton
Coville, Frederick Vernon
Crittenden, Eugene Casson
Crumb, Samuel Ebb
Dana, Samuel Trask
Day, Arthur Louis
Dearing, Charles Thornton
Doran, James Maurice
Dunlap, Frederick Levy
Ellis, Arthur Jackson
England, William Harry
Evatt, Edward King
Everman, Barton Warren
Fahrenbach, John Henry
Fenner, Clarence Norman
Ferner, Roy Yalding
Field, Ethel Content
Flocken, Charles Frederick
Ford, Thomas Bartlett

WASHINGTON—Continued

Fortier, Samuel
Francis, Edward
Franklin, Edward Curtis
Frary, Hobart Dickinson
Free, Edward Elway
Galloway, Beverly Thomas
Gehr, Ray Stewart
Gelwix, Daniel Edwin
Gore, Herbert Charles
Graves, Henry Solon
Gray, Arthur Wellington
Graybill, Harry Webster
Grow, Eugene Julius
Hale, William Worth
Hall, Asaph
Hall, Maurice Crowther
Hall, Rufus Clifford
Hammar, Alfredo Gottlieb
Hance, James Harold
Harper, Daniel Roberts, 3rd
Harrington, Guy Pimbrake
Harris, Rollin Arthur
Harter, Leonard Lee
Hasselbring, Heinrich
Haupt, Charles Elvin, Jr.
Hays, Willet Martin
Haywood, John Kerfoot
Heald, Walter
Hedgcock, George Grant
Heller, Edmund
Hellman, Carl August
Hepburn, Joseph Samuel
Hewes, Lawrence Isley
Hewett, Donnel Foster
Hill, Robert Thomas
Holleran, Francis Edward
Holmes, Joseph Austin
Howard, Leland Ossian
Hudson, Claude Silbert
Hunter, Walter David
Hyde, William Albert
Iddings, Joseph Paxson
Ingram, Della Elizabeth
Jackman, Dean Morreau
Jacobs, Cora Anna
Jamieson, Clara Octavia
Jenne, Eldred Lewellyn
Jenney, Walter Proctor
Johnson, Edward Carl
Katz, Frank James
Kellerman, Karl Frederic
Kenyon, Frederick Courtland
Kern, Robert Russ
Kindle, Edward Martin
Kirk, Edwin
Knopf, Adolph
Lamb, George Newton
Larsen, Esper Signius, Jr.
Lindsey, Archibald
Lines, Edwin Fuller
Lloyd, Edwin Russell
McBride, Russell Smith

DISTRICT OF COLUMBIA—Continued

WASHINGTON—Continued

McCray, Arthur Howard
 McCollum, Burton
 MacDonald, Donald Francis
 McMurrin, Stockton Mosby
 McIndoo, Norman Eugene
 McWhorter, Charles Leonard
 Marsden, Roger Dearborn
 Marvin, Charles Frederick
 Maxon, William Ralph
 Melnzer, Oscar E.
 Menge, George Albert
 Metcalf, Haven
 Michaelson, Joseph McConnechy
 Miles, George T.
 Miller, John Milton
 Moffit, Fred Howard
 Muhse, Effa (Funk)
 Murphy, Louis Sutcliffe
 Nelson, James Allen
 Nichols, Henry James
 Noble, Levi Fatzinger
 Northrop, John DeWolf
 Norton, Jesse Baker
 Nutting, Perley Gilman
 Olmstead, Lewis Bertie
 Pack, Robert Wallace
 Packard, Roscoe Milliken
 Palkin, Samuel
 Palmer, Theodore Sherman
 Patrick, George Edward
 Parker, John Bernard
 Peck, Caro Beth
 Peck, William Argulus
 Pemberton, Cyril E.
 Pennington, Mary Engle
 Phelps, Isaac King
 Phillips, Everett Franklin
 Pickford, Edward Ferguson
 Pogue, Joseph Ezekiel, Jr.
 Pool, Venus Worrell
 Pollard, Willard Lacy
 Potter, Alden Archibald
 Preston, John Frederick
 Priest, Irwin G.
 Pritchard, Fred J.
 Rankin, George Atwater
 Ransom, Brayton Howard
 Ransome, Frederick Leslie
 Ramsey, Henry John
 Read, Effie Alberta
 Reed, Paul Lyon
 Reed, William John
 Ritter, Gilbert Powers
 Roark, Ruric Creegan
 Roberts, John William

WASHINGTON—Continued

Rogers, Gaillard Sherburne
 Russell, Bert
 Salant, William
 Sale, John Walter
 Sampson, Arthur William
 Saunders, De Alton
 Schaller, Waldemar Theodore
 Scheffer, Theophilus H.
 Schreiner, Walter Red
 Schultz, Alfred Reginald
 Shantz, Homer Leroy
 Shaw, Eugene Wesley
 Shaw, Roscoe Hart
 Shear, Cornelius Lott
 Shepherd, Ernest Stanley
 Smith, Charles Meldrum
 Smith, Harry Scott
 Smith, Seward Dwight
 Snodgrass, Robert Evans
 Sosman, Robert Browning
 Spencer, Arthur Coe
 Stedman, John Moore
 Sterrett, Douglas Bovard
 Steubenrauch, Arnold Valentine
 Stinchfield, Ray Lewis
 Stratton, Samuel Wesley
 Sullivan, Michael Xavier
 Taber, Walter Cox
 Thelen, Rolf
 Thompson, William Robin
 Tillotson, Claude Raymond
 Tolman, Lucius Moody
 Tullar, Charles Edward
 Turrentine, John William
 Umpleby, Joseph Bertram
 Vedder, Edward Bright
 Vickery, Roy Albion
 Wallace, Errett
 Weber, Frederick Clarence
 Weed, Alfred Cleveland
 Weibel, Ernest Edward
 Wenner, Frank
 Wesson, Laurence Goddard
 White, Gershom Franklin
 White, Walter Porter
 Wight, William Franklin
 Williams, Gardner Fred
 Willis, Bailey
 Woglum, Russell Sage
 Wood, Herbert Spencer
 Wood, Neal Naramore
 Woodruff, Elmer Grant
 Woodward, Robert Simpson
 Woodward, Tom Elwyn
 Zook, Leslie Lewis

FLORIDA

FORT BARRANCAS

Colton, Roger Baldwin

GAINESVILLE

Benton, John Robert
 Berger, Edward William
 Collison, Stanley Edgar
 Keppel, Herbert Govert

MARATHON

Carter, Richard William

ORLANDO

Edwards, Gaston Holcombe

PENSACOLA

Walter, Albert Gustave

ST. AUGUSTINE

Rohrbaugh, James Madison

TALLAHASSEE

Sellards, Elias Howard

WEST PALM BEACH

Adams, Hanford Curtis

WINTER PARK

Barney, Ida

GEORGIA

ATHENS

Landess, William M.
 Pond, Robert Spencer
 Reade, John Moore

ATLANTA

Block, Edward Bates

ATLANTA—Continued

Boggs, Gilbert Hillhouse
 Childs, Leroy William
 Coon, John Saylor
 Grant, Justin Frank
 Porter, Fred Baker

GEORGIA—Continued

ATLANTA—Continued

Robeson, George Chapin
Smith, Francis Palmer
Spoonner, Charles Stockman
Van Haagen, Walter Kurt
Wright, Winthrop Robins

AUGUSTA

Cutter, William Dick

JEKYL ISLAND

McClure, Roy Donaldson

MACON

Carver, Gail Luke
Lawrence, Frank Elmaker

SAVANNAH

Corson, Eugene Rollin
Gaines, Frederic Freellinghuysen
Neal, George Alfred, Jr.

IDAHO

BOISE

Baldwin, George Clyde
Day, Warren French
Fuller, Lucius B.

COEUR D'ALENE

Bruce, Donald

FEATHERVILLE

Bass, William Carroll

GRACE

Ekern, Emil Alfred

IRVING FALLS

Large, Thomas

KELLOGG

Easton, Stanley Alexander
Hofer, Fred Miller

MOSCOW

Aldrich, John Martin
Barrows, Bessie Brown Robertson
Barrows, Frank Lee
Childers, Lucius Franklin
Ende, Carl Leopola von

MOSCOW—Continued

Gurney, Laurence Emery
Kostalek, John Anton
Shattuck, Charles Houston
Stewart, Charles Arthur

MULLAN

Dwyer, Charles Eustace

NAMPA

Shinn, James Ricketts

POCATELLO

Henderson, Henrietta

RICHFIELD

McConnell, Ira Welch

STAR

Naugle, Johnson Edward

ST. MARIES

Clarke, Charles Patrick
Spaulding, Thomas Claude

WALLACE

Morris, William West

ILLINOIS

ABINGDON

Mansfield, Warren Moore

ARMSTRONG

Dewey, James Ansel

AURORA

Zeleny, Frank

BLOOMINGTON

Homburger, Alfred Wilhelm
Stillhamer, Arthur Grant

CANTON

Lloyd, Robert Clinton

CARBONDALE

Gilbert, John Philo

CHAMPAIGN

Collier, John S.
Earnest, William Watson
Ernest, Thomas Reuben
Ludwig, Edward Roy
MacGillivray, Alexander Dyer
Miller, Wilford Stanton
Morley, Raymond Kurtz
Noerenberg, Clarence Eugene

CHARLESTON

Trauseau, Edgar Nelson

CHATSWORTH

Stanford, Howard Russell

CHICAGO

Abbott, William Lamont
Adams, Everette Eugene
Alcock, Nathaniel G.
Allee, Warder Clyde
Allen, George D.
Allyn, Harriett M.
Anderson, Ernest
Angell, James Rowland
Atkins, Kenneth Noel
Atwood, Wallace Walter
Atwood, Winfred McKenzie

CHICAGO—Continued

Avery, Andrew Ordell
Bach, Irwin Woodward
Barnard, Edith Ethel
Barrows, Harlan Harland
Bartelmez, George William
Beattie, Harold Mairs
Becker, Donald Neil
Bedford, Fred William
Bensley, Robert Russell
Benson, Robert Louis
Bentley, Wilton
Bessey, Carl Athearn
Bishop, Edwin Sherwood
Bliss, Gilbert Ames
Blount, Mary
Boardman, Harry Clow
Bocian, Edward Emanuel
Bolme, Ole Martin
Bond, Perry Avery
Boyden, Henry Blakeslee
Breckinridge, William Lewis
Brill, George Mackenzie
Brockway, Alvah E.
Brokaw, Albert Dudley
Brundage, Avery
Bruner, Frank G.
Buchanan, John Lee
Burnham, William Allds
Cady, Gilbert Haven
Caldwell, Joseph Stuart
Caldwell, Otis William
Caldwell, Will Carleton
Carlson, Anton Julius
Carpenter, Clifford Daniel
Carpenter, Clinton Arthur
Carr, Harvey
Carr, Maurice Leroy
Chamberlain, Charles Joseph
Chamberlin, Guy Louis
Chamberlin, Rollin Thomas

ILLINOIS—Continued

CHICAGO—Continued

Chamberlin, Thomas Chrowder
 Charlton, Cecil Floyd
 Chase, Martin Rist
 Child, Charles Manning
 Chittenden, Edward Wilson
 Clapp, Grace Lucretia
 Clifford, Oliver Charles
 Clutton, Effie Virginia Fixen
 (Clutton, Mrs. Fred H.)
 Cook, William George
 Cooper, William S.
 Copeland, Lyman Francis
 Corper, Harry John
 Coulter, John Merle
 Cowdry, Edmund Vincent
 Cowles, Henry Chandler
 Crocker, William
 Curme, George O., Jr.
 Curtis, Leigh G.
 Dalstrom, Oscar Frederick
 Davis, Benjamin Franklin
 Davis, David John
 Day, William Asher
 Debler, Bruno Erdman
 Decker, Charles Elijah
 Dick, George F.
 Dines, Lloyd Lyne
 Dirks, Henry Bernhard
 Donnelly, Leonard G.
 Dorsey, George Amos
 Doubt, Thomas Eaton
 Drake, Robert Warren
 Drake, William Allen
 Dray, Walter Remy
 Drennan, Fred Miller
 Dunn, Elizabeth Hopkins
 Eckerson, Sophia H.
 Emerson, Clarence
 Emmons, William Harvey
 Englund, Carl Robert
 Estep, Harvey Cole
 Farrington, Oliver Cummings
 Fenner, Robert Coyner
 Fernald, Mabel Ruth
 Files, Ellery Knapton
 Flammer, Ernest
 Fletcher, Harvey
 Freeman, Frank Nugent
 Freud, Benjamin Ball
 Fuller, George Damon
 Gale, Henry Gordon
 Gardner, Bradley Charles
 Gasche, Ferd Guy
 Gatewood, Lee Connel
 Gilbert, John Joseph
 Glattfeld, John W. E.
 Glenn, Thomas Haigh
 Goettsch, Julius
 Goheen, Robert Harold
 Goode, John Paul
 Goodman, Herbert Marcus
 Grandy, Charles
 Graver, Alexander MacDonald
 Greenman, Jesse More
 Greir, James Richard
 Grigsby, Harry Davett
 Gustafson, John Christopher
 Haeffner, John George
 Hagenow, Charles Frederick
 Hall, Ernest M.
 Hall, Winfield Scott
 Hamburger, Walter Wile
 Hanley, James Thomas
 Harris, Norman MacLeod
 Harvey, Basil Coleman Hyatt
 Hayes, Joseph William
 Hayes, Mary Holmes Stevens
 Heinemann, Paul Gustav
 Hektoen, Ludvig

CHICAGO—Continued

Hemenway, Ansel Francis
 Hemmer, Emil John
 Hennings, Albert Edward
 Henry, Gladys R.
 Herrick, Charles Judson
 Hess, Charles L. von
 Hibbard, Paul Llewellyn
 Hill, Bruce Vickroy
 Hill, Charles
 Hilpert, Willis Stose
 Hilton, Hugh Gerald
 Hinds, Henry
 Hinkle, Edgar Clayton
 Hobbs, Glenn Moody
 Hobbs, Raymond Mason
 Hobert, Stephen Galusha
 Hogan, Edward Lawrence
 Holmes, Harriet F.
 Holsinger, Lloyd
 Hosken, Raymond Barclay
 Houts, Guy Joseph
 Howatt, John
 Hunter, Walter Samuel
 Ingberg, Simon
 Ireland, Roy Rowell
 Irons, Ernest Edward
 Jackson, Reginald
 Jacobson, Clara
 Jacobson, Edmund
 Jasper, Thomas McLean
 Jensen, George Leonard
 Johannsen, Albert
 Johnston, Oscar Perry
 Jones, Walter Everett
 Jordan, Edwin Oakes
 Judd, Charles Hubbard
 Keil, Raymond Humphrey
 Kelley, Alfred Allen
 Kildahl, Nelsine Johanna
 Kinsley, Carl
 Kirk, Edwin Garvey
 Klein, Sidney
 Knight, Lee Irving
 Koch, Edward William
 Koch, Fred Conrad
 Kotz, Raymond Castle
 Kramer, Raymond Carl
 Kyes, Preston
 Land, William Jesse Goad
 Lando, Maximilian Nandor
 Laves, Kurt
 Lawrie, James Wright
 LeCount, Edwin Raymond
 Lee, John Yubong
 Lee, O. J.
 Leffingwell, Ernest DeKoven
 Lemon, Harvey Brace
 Lewald, Arthur Maurice
 Lewis, Albert Buell
 Lewis, Frederick B.
 Lillie, Frank Ratray
 Lingle, David Judson
 Llewellyn, Ralph Corson
 Lloyd, Morton Githens
 Long, John Harper
 Lord, Arthur Russell
 Lucas, Howard Johnson
 Luckhardt, Arno Benedict
 Ludlow, Justin Wyman
 Lunn, Arthur Constant
 Lussky, Herbert O.
 Lyman, James
 McArthur, Selim Walker
 McCarn, Burtis Barton
 McClellan, John Hancock
 McCormick, Florence A.
 McCoy, Herbert Newby
 McDonald, Lewis
 McIndoo, Norman Eugene

ILLINOIS—Continued

CHICAGO—Continued

McKibben, Paul Stillwell
 MacMillan, Eugene Campbell
 MacMillan, William Duncan
 McWayne, Albert
 Magnuson, Paul Budd
 Mann, Charles Riborg
 Martin, Arsellia Bessie
 Masters, Frank Harris
 Mathews, Albert Prescott
 Mathews, Samuel Alexander
 Mayo, Alfred David
 Mead, Lucy Winifred (Brant)
 (Mead, Mrs. James)
 Meek, Seth Eugene
 Menzies, Alan Wilfrid Cranbrook
 Michelson, Albert Abraham
 Millikan, Robert Andrews
 Millsbaugh, Charles Frederic
 Mitchell, James Herbert
 Mitchell, Nolan Dickson
 Monroe, Walter Scott
 Moody, Howard Wilson
 Moon, Virgil Holland
 Moore, Eliakim Hastings
 Moore, John Colin
 Motl, Charles Leo
 Moulton, Everett C.
 Moulton, Forest Ray
 Myers, George William
 Myrick, George Harold
 Nef, John Ulric
 Nekola, John Wenceslaus
 Newman, Horatio Hackett
 Nissen, Charles Matthias
 Nitz, Ingo Charles
 North, Henry Archibald
 Osborne, Raymond William
 Osgood, Wilfred Hudson
 Osthoff, Otto Ernest
 Parsons, Charles Wesley Darwin
 Patterson, James
 Payne, Harold Gould
 Pennock, Edward M.
 Perrin, Flemming Allen Clay
 Peterson, Andrew Peter
 Peterson, William Arnold
 Petry, Loren Clifford
 Pettet, Roswell Talmadge
 Pfeiffer, Norma Etta
 Pfeiffer, Wanda May
 Phillips, Alfred Edward
 Pillsbury, Charles Stephen
 Potter, Paul David
 Potterf, Loran O.
 Powell, Jesse Roy
 Prentiss, Charles William
 Prior, Edward Hamilton
 Pusey, Brown
 Raiford, Lemuel Charles
 Ramey, Horace Patton
 Randall, Frank Alfred
 Ranson, Stephen Walter
 Raster, Walther
 Raymond, Miner
 Rech, Gilbert Henry Andrew
 Retzer, Robert
 Remon, John Allen
 Renner, Edwin Theodore
 Rice, Arthur Louis
 Richmond, Joseph
 Riddle, Oscar
 Riggs, Elmer Samuel
 Robinson, Ward Reid
 Royse, Daniel
 Sailor, Robert Warren
 Salisbury, Rollin D.
 Sanderson, Mildred Lenora
 Sauer, Carl Ortwin
 Sawyer, George Pillsbury

CHICAGO—Continued

Schlesinger, Hermann Irving
 Schnable, George L.
 Scholes, Daniel Ransom
 Schoonover, William Leroy
 Schweitzer, Arthur Richard
 Seibel, Charles William
 Sharp, Lester Whyland
 Shelford, Victor Ernest
 Shrader, Frank Kay
 Simmons, Harold Hoyt
 Simpson, Burton Jesse
 Simpson, Howard Sard
 Sinclair, John George
 Slaughter, Herbert Ellsworth
 Slye, Maud
 Smith, Arthur Bessey
 Smith, Burke
 Smith, William Jones
 Smithson, John Edward
 Stair, Jacob Leander
 Stair, Leslie Dalrymple
 Stanford, Harold Melvin
 Starr, Frederick
 Starr, Anna Morse
 Stein, Milton Frederick
 Stephenson, Joseph Clark
 Stieglitz, Julius
 Stolar, Ole O.
 Storey, William Benson
 Strong, Reuben Myron
 Swern, Percy Weston
 Swift, Charles Henry
 Tashiro, Shiro
 Taylor, John Orlo
 Terry, Ethel M.
 Tibbals, Charles Austin, Jr.
 Todd, David Duke
 Tower, William Laurence
 Towne, Walter James
 Treichel, Henry George
 Trumbull, Harlan Leo
 Udden, John Andrews
 Van Dervort, Jameson
 Vincent, Stella B.
 Viol, Charles Herman
 Walker, Sidney, Jr.
 Walledom, Jesse Jacobson
 Webster, Ralph Waldo
 Weller, Stuart
 Wells, Harry Gideon
 Wheeler, Herbert Merrill
 Wilbur, J. Ralph
 Wilcox, Burton B.
 Wilczynski, Ernest Julius
 Williams, Fred Mortimer
 Willis, Bernard Darwin
 Williston, Samuel Wendell
 Wilson, Herrick East
 Wilson, John Gordon
 Winton, Andrew Lincoln
 Woelfel, Albert
 Woodyatt, Rollin Turner
 Worstall, Robert Arthur
 Young, Mary Sophie
 Zeit, Frederic Robert
 Zoethout, William Douwes

CHICAGO HEIGHTS

Gilbert, Newell Clark
 Taylor, Harold George

CICERO

Morris, Verle Weaver

CRYSTAL LAKE

Dike, Charles F., Jr.

DANVILLE

Cooke, Allen Burton
 James, Charles Austin

ILLINOIS—Continued

- DECATUR**
 Eckhard, George Frederick
 Hessler, John Charles
 Neustadt, George Auerbach
 Putnam, William James
- DEKALB**
 Smith, Paul Ardell
 Wager, Ralph Edmond
 Wood, Henry Clay
- DUQUOIN**
 Gibson, John Chester
- EAST MOLINE**
 Strombec, George Mauritz
- ELBURN**
 Elden, Ralph Waldo
 Mathewson, John Warne
- EVANSTON**
 Atwell, Charles Beach
 Basquin, Olin Hanson
 Bauer, William Charles
 Burger, William H.
 Butler, Susan Farley (Rolfe)
 (Mrs Horace Graham Butler)
 Coghill, William Hawes
 Crew, Henry
 Curtiss, David Raymond
 Decker, Charles Elijah
 Fox, Philip
 Gault, Robert Harvey
 Gibson, W. Stanley
 Grant, Ulysses Sherman
 Hargitt, George Thomas
 Harris, Abram Winegardner
 Harper, Eugene Howard
 Hayford, John Fillmore
 Hennessey, Enid
 Hines, Murray Arnold
 Holgate, Thomas Franklin
 Holsinger, Lloyd
 Irish, Leland Wesley
 Jensen, Gerhard Hemming
 Lewis, Winford Lee
 Locy, William Albert
 Mansfield, George Rogers
 Mead, Charles Searing
 Merritt, John Wesley
 Moore, Robert Lee
 Morehead, James Caddall
 Rolfe, Susan Farley
 Shaw, Leon Irwin
 Stanford, Mary (Olson)
 (Mrs. H. M. Stanford)
 Tatnall, Robert Richard
 Tracy, Henry Carroll
 Weld, Lewis Hart
 Wilson, Robert Edward
 Woodburn, William Logan
 Young, Abram Van Eps
- GALENA**
 Bench, Alfred Rittscher
- GALESBURG**
 Wells, Bertram Whittier
 Wilson, Arthur John
- GENEVA**
 Bridgman, Olga Louise
- GREENVILLE**
 Ernsberger, Iva Belle
- GLENARM**
 Stout, Frank Lewis
- HARVEY**
 van Pappelendam, Bernard Carlyle
- HERSMAN**
 Hersman, Francis Craig
- HIGHLAND**
 Latzer, Robert Louis
- HINSDALE**
 Van Inwagen, Frank
- HOSPITAL**
 Wussow, August Frank Daniel
- HOWARD**
 Way, Cassius
- JACKSONVILLE**
 Brown, James
- KANKAKEE**
 Baer, J. L.
- KENILWORTH**
 Hildebrand, Louis Ernest
- KEWANEE**
 Crosby, Clifford
 Manning, Florence Leland
- LA GRANGE**
 Danner, Jake
 Mitchell, Herbert Cossitt
 Sullivan, Ellen Theresa
 Thomas, Emma Jane
- LAKE FOREST**
 Betten, Cornelius
 Clawson, Arthur Brooks
 Rendtorff, Edward J.
- LA MOILLE**
 Decker, Carl Henry
- LAWRENCEVILLE**
 Robinson, Howard Needham
- MOLINE**
 Mixter, George Webber
- MONMOUTH**
 Fox, Harry Bert
- MONTROSE**
 Spitler, John Clyde
- MORTON PARK**
 Van Brunt, George Athol
- NEW MEMPHIS**
 Bopp, Julius Valentine
- NEW WINDSOR**
 Coleman, Clyde Bestor
- NORMAL**
 Barker, George A.
 Madden, Irwin Arthur
 Peterson, Harvey Andrew
 Pricer, John Lossen
- NORRIS CITY**
 Hoskins, Ezekiel Edward
- OAK HILL**
 Bartlett, Roland Miller
- OAK PARK**
 Ripley, Charles Trescott
 Talbot, Kenneth Hammett
 Thalman, Joseph Luther
 Weckel, Ada Louise
- ORION**
 Jordan, Lura Elizabeth (Parsons)
 (Mrs Erwin B. Jordan)
- OTTAWA**
 Sherwood, Frederick Augustus
- PEORIA**
 Ashman, George Cromwell
 Hight, Eugene Stewart
- PIPER CITY**
 Oathout, Charles Hubert
- RIVERSIDE**
 Craft, Francis Marion
- ROCKFORD**
 Castro, Matilde
 Day, Dudley Watson
 Marshall, Ruth
 Robinson, Charles Jason
 Scott, Lee Osborne
 Weld, Edward Howland

ILLINOIS—Continued

ROCK ISLAND

Birdsall, Lewis Isaac
Cederberg, William Emanuel
Hazard, Lee Herbert
Magnusson, John Peter

SALEM

Johnson, William Chance
McClenahan, William Thompson

SOUTH HOLLAND

Gouwens, Cornelius

SPRINGFIELD

Burch, George Francis
Center, Orlo Dorr
Crook, Alja Robinson
Ide, Francis Pierce
Kinnear, Theron James
Lanphier, Robert Carr
Patton, Charles Lanphier
Peters, Albert Theodore
Roman, Frank Louis

STERLING

Deets, Ralph Emerson

SYCAMORE

Pond, Ethel Claire
Stephens, Herbert Coles

URBANA

Abrams, Duff Andrew
Adams, Charles Christopher
Anderson, Arvid Robert
Anderson, Henry W.
Anderson, Samuel Herbert
Arps, George Frederick
Aumer, Joseph Paul
Bagley, Florence (Winger)
(Mrs. William Chandler Bagley)
Bagley, William Chandler
Bailey, Ernest Winfield
Baker, Ira Osborn
Balke, Clarence William
Barrett, James Theophilus
Bartow, Edward
Bates, Stuart Jeffrey
Baxter, Florence Gabrielle
Bayley, William Shirley
Beal, George Denton
Becht, Frank Christian
Bell, James Edgar
Bennett, Claudius Edmund
Bennett, Elizabeth Ruth
Berg, Ernst Julius
Bevier, Isabel
Blair, Joseph Culien
Blatchley, Raymond Silliman
Bleininger, Albert Victor
Borger, Robert Lacey
Brand, Herbert Amery
Brand, Royden Earl
Briscoe, Charles F.
Brooks, Morgan
Brown, Briggs Odd
Bryant, John Myron
Burgess, Laurie Lorne
Burgess, Paul Steere
Burres, Opal
Burrill, Thomas Jonathan
Buyers, Archie Stanton
Cady, Gilbert Haven
Carman, Albert Pruden
Carpenter, Frederic Walton
Coffey, Walter Castella
Colvin, Stephen Sheldon
Crandall, Charles Spencer
Crathorne, Arthur Robert
Curtiss, Richard Sydney
Davenport, Eugene
Denton, William Wells
Derick, Clarence George
DeWolf, Frank Walbridge
Dietrich, William

URBANA—Continued

Douthitt, Herman
Dufour, Frank Oliver
Eells, Willard Clark
Ekblaw, Walter Elmer
Emch, Arnold
Emmett, Arthur Donaldson
Enger, Melvin Lorenus
Farwell, Stanley Prince
Fisher, Forest Addison
Foote, Francis Seeley, Jr.
Forbes, Stephen Alfred
Fraser, Wilbur John
Gaines, Walter Lee
Glasgow, Hugh
Glasgow, Robert Douglas
Glenn, Pressley Adams
Godeke, Harry Frederick
Goldthwaite, Nellie Esther
Gonnerman, Harrison Frederick
Goodenough, George Alfred
Goss, William Freeman Myrick
Gray, Daniel Thomas
Grindley, Harry Sands
Gustafson, Axel Ferdinand
Hall, Louis Dixon
Hart, Charles Arthur
Hawk, Phillip Bovier
Hayden, Cassius Clay
Hegnauer, Leonard
Hepburn, Nelson William
Hirsch, Edwin Fred
Hoffman, Paul Alexander
Hopkins, Cyril George
Hornbeak, John Wesley
Hottes, Charles Frederick
Houston, Harold Allen
Isham, Helen
Jesse, Richard Henry, Jr.
Kamm, Oliver
Kerr, Josephine Ellrod
Kircher, Paul
Knipp, Charles Tobias
Kratz, Alonzo Plumsted
Leutwiler, Oscar Adolph
Lincoln, Francis Church
Lloyd, John William
Love, Robert James
Lytle, Ernest Barnes
MacGillivray, Alexander Dyer
MacInnes, Duncan Arthur
McCarthy, Ellen S.
McDonald, Elmer Massey
McEwen, George Francis
McFarland, David Ford
McIntosh, Donald
Malcolm, Charles Wesley
Mann, Frederick Maynard
Marquis, Franklin Wales
Mason, Mayne Seguin
Millard, Earl Bowman
Millard, Floyd Hays
Miller, George Abram
Miller, Wilford Stanton
Mitchell, Harold Hanson
Moore, Herbert Fisher
Morley, Raymond Kurtz
Mumford, Herbert Windsor
Nickell, Lloyd Francis
Noyes, William Albert
Oberdorfer, Henry Dickson
Paine, Ellery Burton
Parr, Samuel Wilson
Pettit, James Harvey
Readhimer, Jerome Edward
Reed, Frank Walker
Rich, John Lyon
Richards, Charles Russ
Richardson, Robert Earl
Rickards, Burt Ransom

ILLINOIS—Continued

URBANA—Continued

Ricker, Ethel
 Ricker, Nathan Clifford
 Rietz, Henry Lewis
 Rolfe, Charles Wesley
 Rusk, Henry Perly
 Rutledge, George
 Savage, Thomas Edmund
 Schmidt, Edward Charles
 Schulz, William Frederick
 Shattuck, Samuel Walker
 Shaw, Eugene Wesley
 Shaw, James Byrnie
 Shook, Glenn Alfred
 Sisam, Charles Herschel
 Slater, Willis Appleford
 Smith, Frank
 Smith, George McPhail
 Smith, Louie Henry
 Snodgrass, John McBeath
 Stebbins, Joel
 Stewart, Harold Wilson
 Stook, Harry Harkness
 Stouffer, Ellis Bagley
 Strachan, Earl Kenneth
 Stromquist, Walter Gottfried
 Stull, Ray Thomas
 Sutherland, Arthur Howard
 Talbot, Arthur Newell
 Taylor, Thomas Smith
 Thorpe, John Charles

URBANA—Continued

Townsend, Edgar Jerome
 Van Cleave, Harley Jones
 Wahlin, Gustaf Eric
 Ward, Henry Baldwin
 Washburn, Edward Wight
 Watson, Floyd Rowe
 Welch, Paul Smith
 Wells, Newton Alonzo
 White, James McLaren
 Wiley, Carroll Carson
 Williams, Elmer Howard
 Windsor, Margaret Boynton
 Yensen, Trygve D.
 Zeleny, Charles

WESTERN SPRINGS

Patterson, Harriet (Wales)
 (Mrs. E. C. Patterson)
 Willard, Stephen Franklin

WEST YORK

Beil, Rodney Linton

WHEATON

Christman, Laura Ethel

WILMETTE

Morrison, Guy Burl

WINNEBAGO

Parsons, George

WINTHROP HARBOR

Utle, Jay DeWitt

INDIANA

ANDERSON

Tucker, William Motier

BLOOMINGTON

Alburger, Henry Rihl
 Andrews, Frank Marion
 Andrews, Marie Opperman
 Beede, Joshua William
 Bryan, William Lowe
 Carmichael, Robert Daniel
 Cogshall, Wilbur Adelman
 Cummings, Edgar Roscoe
 Davisson, Schuyler Colfax
 Drew, David Abbott
 Dutcher, John Benjamin
 Eigenmann, Carl H.
 Eigenmann, Rosa Smith
 (Mrs. C. H. Eigenmann)
 Foley, Arthur Lee
 Foley, Eupha May
 Haggerty, Melvin Everett
 Hanna, Ulysses Sherman
 Harman, Mary Theresa
 Hufford, Mason Edward
 Lee, Ira Elver
 Lindley, Ernest Hiram
 Lyons, Robert Edward
 MacDill, Leslie
 Martin, John N.
 Mason, Thomas Edward
 Mathers, Frank Curry
 May, Clarence Earl
 Moenkhaus, William J.
 Mottier, David Myers
 Myers, Burton Dorr
 Ness, Alpheus Russel
 Payne, Fernandus
 Pohlman, Augustus Grote
 Ramsey, Rolla Roy
 Rothrock, David Andrew
 Scott, Will
 Van Hook, James M.

BLUFFTON

Williamson, Edward Bruce

BRISTOL

Bordner, John Serenus

CRAWFORDSVILLE

Bodine, Donaldson
 Chapman, Edgar K.
 Reddick, Guy A.
 Thomas, Mason Blanchard

EVANSVILLE

Brooks, William Conrad

FORT WAYNE

Graham, Fred Milo
 Krueper, Harry Joseph
 Mead, Franklin Bush
 Stone, Thomas Wade
 Wagner, Edward Andrew

GARY

Elm, Evar Emanuel
 McNamee, Lawrence Ross
 Wheeler, Arthur Wayne

HANOVER

Boyd, Paul Prentice

INDIANAPOLIS

Alburger, Henry Rihl
 Blatchley, Willis Stanley
 Brown, Charles Carroll
 Gard, Russell Tyner
 Hollis, Frederick Stearns
 Kime, Virgil Morrison
 Lewis, Otto L.
 McMeans, Orange Edward
 Shipp, Augustus Clyde
 Simons, Etolle Bessie
 Torian, Oscar Noel

JEFFERSONVILLE

Willoughby, Levi Philip Ray

KEMPTON

Holmes, Major Edward
 Warren, Joseph Allen

KOUTS

Warren, Joseph Allen

LAFAYETTE

Arthur, Joseph Charles
 Baker, Linnaeus Earl

INDIANA—Continued

LAFAYETTE—Continued

Benjamin, Charles Henry
 Bill, Earl Gordon
 Breeze, Frederick John
 Burrage, Severance
 Caswell, Albert Edward
 Coulter, Stanley
 Craig, Robert Alexander
 Dukes, Richard Gustavus
 Duncan, David Christie
 Edmonson, John Benjamin
 Esterline, John Walter
 Evans, Percy Norton
 Ferry, Ervin Sidney
 Fitch, Mary Ailda
 Fuller, Frederick Driggs
 Golden, Michael Joseph
 Goss, Arthur
 Harding, Charles Francis
 Harrison, Oliver Morton
 Hatt, William Kendrick
 Hewitt, Benjamin Hartley
 Hoffman, James David
 Hunziker, Otto Fred
 Johnson, Arden R.
 Jones, William James, Jr.
 Kenyon, Alfred Monroe
 Kern, Frank Dunn
 Knapp, Willard Alfred
 Mahin, Edward Garfield
 Marshall, William
 McCarthy, Charles Stephen
 Middleton, Arthur Renwick
 Mitchell, Elizabeth
 Moore, Charles Ruby
 Oskant, Joseph
 Poorman, Alfred Peter
 Pipal, Francis John
 Price, Melvin
 Pumphrey, Ray Edgar
 Roberts, Paul Linch
 Rowell, Lewis Dow
 Sackett, Robert Lemuel
 Scofield, Herbert Henry
 Skinner, John Harrison
 Smalley, Harold Ryland
 Smith, Albert
 Smith, Charles Marquis
 Spitzer, George
 Stone, Winthrop Ellsworth
 Terry, Oliver Perkins
 Topping, Alanson Niles

ADEL

Straight, Halver Rufus

AMES

Buchanan, Robert Earle
 Burnett, Esther Pearl (Hensel)
 (Mrs. L. C. Burnett)
 Colpitts, Julia Trueman
 Coover, Forrest Winfred
 Davidson, Jay Brownlee
 Dox, Arthur Wayland
 Eyvard, John Marcus
 Fish, Fred Alan
 Ford, Howard Carlton
 Fowler, Chester Charles
 Guthrie, Joseph Edward
 Hammer, Bernard Wernick
 Hughes, Harold DeMott
 Major, Charles Curtis
 Marstin, Anson
 Shane, Adolph
 Shedd, Claude Kedzie
 Summers, Henry Elijah
 Williams, Ira Abraham

ATLANTIC

Aschenbrenner, Kathryn Theiss

LAFAYETTE—Continued

Wainwright, Guy Alwyn
 Westlund, Jacob
 Weeks, Luther Cornelius
 Wiancko, Alfred Theodor
 Wiley, Ralph Benjamin
 Woodbury, Charles Goodrich
 Young, Gilbert Amos

LINTON

Haseman, Joseph Henry

LOGANSPOUT

Geer, Isaac Wheeler
 Hesler, Robert

MARION

Bell, George Alfred, Jr.

MISHAWAKA

MacLean, Wilber Marshall
 Whittlesey, Theodore

OWENSVILLE

Thompson, Albert Warrick

RICHMOND

Hayes, Stanley Wolcott
 Hole, Allen David
 Mendenhall, William Orville
 Ross, Louis Francisco

SOUTH BEND

Edmonson, Oscar Norton
 Hitchcock, Walter Andrew
 Kephart, George Eaton

TERRE HAUTE

Hathaway, Arthur Stafford
 Hyde, Roscoe Raymond
 Knipmeyer, Clarence Carl
 Reckert, Frederick Carl
 Thomas, Harold Allen
 White, John

VINCENNES

Brown, Simpson Leroy

WABASH

Kracke, Ella W.

WEST LAFAYETTE

Knapp, Willard Alfred
 Mitchell, Elisabeth

WEST RICHMOND

Gano, Laura

WHITING

Wolf, John Emerson

IOWA

BURLINGTON

Leopold, Carl Starker
 Scholz, Herman Albert
 Witte, John Henry

CEDAR FALLS

Kadesch, William Henry
 Mount, George Haines

CEDAR RAPIDS

Brocksmith, John Cornelius
 Edinger, Paul Frederick
 Ivins, Harry Morgan
 Weld, LeRoy Dougherty

CENTERVILLE

Adams, Joseph Quincy
 Robertson, Charles Adolph

COUNCIL BLUFFS

Mead, Lucy Winifred (Brant)
 (Mrs. James Mead)

CRESCO

Buckley, Grace Emma
 De Voe, Philip Kirby

DAVENPORT

Andrews, Launcelot Winchester
 Barr, William Milton

IOWA—Continued

DAVENPORT—Continued

Decker, George Edward
Hill, Norman Haden
Nabstedt, Arthur Theodore
Watzek, Charles Harlan

DES MOINES

Beer, Paul
Berryhill, James Guest, Jr.
Crellin, Edward Webster
Hartupce, Harvey Wilfred
Lees, James Henry
Partch, Clarence Elmar
Posner, Edward R.
Richardson, Florence Ella

DYSART

Jensen, Frank Thomas

FAIRFIELD

Putnam, Karl Sobieski

GRINNELL

Conard, Henry Shoemaker
Norris, Harry Waldo
Norsworthy, Leonard D.
Swisher, Charles Lee

HAWARDEN

Stone, Merle Rufus

HITEMAN

Seidel, Earl Reinholdt

INDEPENDENCE

Roney, Katherine

IOWA CITY

Albert, Henry
Alexander, Clive Morris
Baker, Richard Philip
Brown, Fay Cluff
Cox, Arthur John
Cronin, Sarah Elizabeth
Dow, Edwin Arthur
Farr, Clifford Harrison
Fleming, Burton Percival
Ford, Arthur Hillyer
Fraser, Charles McLean
Giddings, Levi Alexander
Hayden, Beulah
Higbee, Frederick Goodson
Houser, Gilbert Logan
Howard, Campbell Palmer
Jepson, William
Karslake, William Jay
Kay, George Frederick
Knupp, Noah D.
Kuntz, Albert
Lambert, Byron James
Lambert, John Joseph
Macbride, Thomas Huston
Merrill, Dayton Eugene
Miles, Walter Richard
Moore, Fred
Nutting, Charles Cleveland
Pearce, James Newton
Prentiss, Henry James
Puckett, Ralph Clarkson
Raymond, William Galt
Reilly, John Franklin
Rigler, Edith Gertrude
Rockwood, Elbert William
Seashore, Carl Emil

IOWA CITY—Continued

Secrest, Charles Mahlon
Shimek, Bohumil
Shimek, Ella
Sieg, Lee Paul
Smith, Arthur George
Smith, Franklin Orion
Stewart, George Walter
Stoner, Dayton
Stromsten, Frank Albert
Stromsten, Minerva (Swaney)
(Mrs. Frank A. Stromsten)
Thomas, Abram Owen
Truman, Orley Hosmer
Uhde, Irma Augusta
Van Epps, Clarence
Van Tuyl, Francis Maurice
Weld, Laenas Gifford
Wickham, Henry Frederick
Williams, Mabel Claire
Woodward, Sherman Melville
Wylie, Robert Bradford
Yocum, Alice Emily
Young, Frederick Charles
Zule, Mildred Rebecca

KEOKUK

Ketcham, Valentine Odell
Kornfeld, Harry
Schweier, Arthur

LAKEFIELD

Brauch, Emma Beth (Achenbach)
(Mrs. E. B. Brauch)

MASON CITY

Albert, Frederick

MUSCATINE

Gardiner, Charles Rockwell

OSAGE

Crum, Lilah B.

OTTUMWA

Taylor, Maud Estella

PETERSON

Butler, Hortense

PRAIRIEBURG

Wilkinson, Mary Louise (Woods)
(Mrs. Levi Wilkinson)

SIOUX CITY

Beck, William Edmund
McCarty, Lawrence Justin
McClintock, Calvin Terry
Stephens, Thomas Calderwood
Stiles, Harold

TABOR

Jewell, Susan Grace

TAINTOR

Ryan, John Gaston

TOLEDO

Kenoyer, Leslie Alva

WASHINGTON

Churchill, Edward Perry

WATERLOO

Burt, Austin

WESTGATE

Wente, Edward Christopher

KANSAS

BALDWIN

Porterfield, Roy Albert
Randall, David Lindsey

BLUE RAPIDS

Bartholow, Edmond Montgomery

BRADFORD

Willard, Charles Julius

CLAY CENTER

Stough, Howard

EMPORIA

Agrelus, Frank Ulysses Grant
Lowther, Lloyd Alonzo

FORT LEAVENWORTH

Chubb, Wistar Morris
Gibbs, George Sabin

KANSAS—Continued

HAVILAND

Fisher, Effie (Pyle)

HOLTON

Hunter, Madone Carlington

HUMBOLDT

Byerley, Mable Rowena (Davis)
(Mrs. W. A. Byerley)

INDEPENDENCE

Frichot, Bert Charles

KANSAS CITY

Greene, Marie Anna
Hodge, John Alfred
Thompson, Martha Alice
White, Edward Ambrose

LAWRENCE

Allen, Herman Camp
Ashton, Charles Hamilton
Bailey, Edgar Henry Summerfield
Barber, Marshall Albert
Baumgartner, William Jacob
Billings, Frederick Horatio
Brook, Frank Peterson
Boughton, Thomas Harris
Bushong, Francis William
Cady, Hamilton Perkins
Carothers, Estella Eleanor
Charles, Grace Miriam
Clarke, Helen
Corp, Charles Ives
Dains, Frank Burnett
Dalton, B. J.
Duncan, Robert Kennedy
Dunmire, Elijah Herbert
Dyche, Lewis Lindsay
Emerson, Herbert William
Gruber, Charles Merl
Guffey, Don Carlos
Havenhill, L. D.
Haworth, Erasmus
Hoad, William Christian
Hood, George Jussen
Hunter, Samuel John
Hyde, Ida Henrietta
Jackson, Henry Louis
Johnson, Clarence Anthony
Jordan, Herbert Edwin
Kester, Frederick Edward
Learned, Albert Preisach
McClung, Clarence Erwin
MacGregor, Hazel Hope
Marvin, Frank Olin
Moodie, Roy Lee
Morscher, Lawrence Norton
Nowlin, Nadine
Pitcher, Arthur Dunn
Redman, Lawrence, Vincent
Rice, Martin Everett
Rupert, Frank Finch
Sayre, Lucius Elmer
Shaad, George Carl
Sterling, Charles Morgan
Stevens, William Chase
Sudler, Mervin Tubman
Tibbetts, Ernest Roy
Tillotson, Edwin Ward
Todd, James Edward
Twenhofel, William Henry
Van der Vries, John Nicholas
Vawter, Will Elbert
Walker, Perley
Walling, Lalla Viola
Weidlein, Edward Roy
Weith, Archie James
Wenrich, David Henry
White, Edward Albert

LAWRENCE—Continued

White, Marion Ballantyne
Williams, Francis Xavier
Young, Clifford Caudy
Young, Clinton Mason

LEAVENWORTH

Barkmann, Ernest Henry

LYONS

Pulliam, Leonard

MACKSVILLE

Powell, Fred Cecil

MCPHERSON

Frizell, Arthur Bowes

MANHATTAN

Call, Leland Everett
Chase, Carl Fred
Davis, Wilmer Esla
Fitch, James Burgess
Ford, Carlotta Marks
Gilman, Ray Edwin
Headlee, Thomas J.
Hughes, Josiah Simson
Miller, Edwin Cyrus
Nabours, Robert Kirkland
Roberts, Herbert Fuller
Scott, John William
Stevens, Neil Everett
Van Ewing, Perry
Waters, Henry Jackson
Wright, Turner Richard Haden

NEWTON

Wedel, Peter John

NEODESHA

Hill, Burritt Howell

OTTAWA

Judy, Wilbur Howden
Shirk, James Abraham Garfield

PAOLA

Barnhill, John Firmen

PIQUA

Clark, Earl Finley

PITTSBURG

Curfman, Lawrence Everett

ROSEDALE

Finney, Guy
Gibson, Edward Thomas
McCarty, Virgil
Smith, Delbert O.
Sutton, Walter Stanborough

ROSSVILLE

Miller, Henry Blackburn

SALINA

Harvey, John King

TABLE MOUND

Williams, Warren Benjamin

TOPEKA

Edmondson, Charles Howard
Esterly, Daniel Edward
Loper, Cleveland Scott
Obrecht, Rufus Chauncey
Schumacher, Ramon
Smyth, Lumina (Riddle)
(Mrs. Bernard B. Smyth)
Tague, Edgar Lemuel
Twiss, Edith Minot
Young, Alexander Ririe

WICHITA

Brockway, Paul Lemon
Green, Wyman Reed
Williams, Djalma Downey

WINCHESTER

Curry, John Edward

KENTUCKY

FRANKFORT

Hoffman, Edson Allen

LEXINGTON

Matthews, Clarence Wentworth

Maxson, Ralph Nelson

Shull, Charles Albert

Surface, Frank Macy

LOUISVILLE

Caldwell, Morley Albert

Harris, Ceburn Dodd

LOUISVILLE—Continued

Hathaway, Joseph Henry

Jennison, Ralph Drury

Roberts, Shelby Sandfley

Tileston, Leroy

Tislow, Oswald Albert

MARION

Sanders, Walter Murray

OWENSBORO

Jennison, Ralph Drury

LOUISIANA

ABBEVILLE

Eustis, Allan Chotard

ALEXANDRIA

Crew, Charles Corwin

BATON ROUGE

Bell, Albert Thomas

Edgerton, Claude Wilbur

Guell, Antonio

Kidder, Albert Franklin

BURNSIDE

McFarland, Charles Stone

BRUNSWICK

Loomis, Nathaniel Edward

CASTINE

Wilson, J. Howard

ORONO

Aley, Robert Judson

Brown, Charles Barto

Childs, Albert Theodore

Chrysler, Minton Asbury

Craig, Wallace

Curtis, Maynie Rose

Johannsen, Oskar Augustus

Lewis, Charles Edward

Patch, Edith Marion

NEW ORLEANS

Bean, Robert Bennett

Billingsley, James Wartelle

Bullard, H. Hays

Clo, J. Harry

Day, Reuben Noble

Grant, Ernest Holman

Gregory, William Benjamin

Hardesty, Irving

Loeber, Edith

Smith, Harrison

SHREVEPORT

Young, Daisy

MAINE

ORONO—Continued

Pearl, Raymond

Tower, Bessie (Leeds)

(Mrs. Gordon E. Tower)

Woodman, Leon Elmer

PORTLAND

Allen, John Howard

WATERTVILLE

Obear, George Barrows

Parmenter, George Freeman

Roberts, Edwin Jay

WESTBROOK

Beeber, Samuel Jacob

MARYLAND

ANNAPOLIS

Loeb, Leo

BLACK RIVER

Gundlach, Henry Ralph

BALTIMORE

Barker, Lewellys Franklin

Barnett, Charles Ridgely, Jr.

Barnett, George DeForest

Billau, Lewis Scoville

Bronson, Edith

Browne, William Hand, Jr.

Clark, Eliot Round

Clough, Harry Duffield

Cohoe, Benson Ambrose

Conover, Henry H.

Cowles, Rhinehart Parker

Dandy, Walter Edward

Davis, Edwin Greene

Davis, John Staige

Essick, Charles Rhein

Esslinger, Edwin Walter

Evans, Herbert McLean

Gates, Frederick Lamont

Goetsch, Emil

Gorham, Lemuel Whittington

Graham, Clarence Flack

Hartzell, Walter Lewers

Hooper, Charles Warren

Jennings, Herbert Spencer

Joslin, Lulu Broadbent

Kellicott, William Erskine

Kemp, George Theophilus

King, Jessie Luella

Krause, Allen Kramer

BALTIMORE—Continued

Livingston, Burton Edward

Longley, William Harding

Mearns, Louis Zerega

Norris, Paul Elfred

Platt, Washington

Redelings, Leslie Hall

Rothrock, Irvin R.

Rouiller, Charles Augustus

Sellards, Andrew Watson

Van Vleck, Frank

Voorhees, Henry Belin

Watson, John Broadus

Weed, Lewis Hill

Whipple, George Hoyt

BRANDYWINE

Brooks, Ira Sanford

COLLEGE PARK

Appleman, Charles Orval

DARLINGTON

Edge, Walter Smith

GAITHERSBURG

Ross, Frank Elmore

HAVRE DE GRACE

Starr, William Parvin

PERRYVILLE

Stowe, Henry Daniells

PORT DEPOSIT

Harrison, Frederick Brown

Hutchinson, Lewis Orrin

SPARROWS POINT

Raidabaugh, John Adam

MASSACHUSETTS

AMHERST

Cobb, Charles W.
Doughty, Howard Waters
Foord, James Alfred
Gordon, Clarence Everett
Hall, Elliot Snell
Peters, Charles, Adams

ANDOVER

Boyce, Frederick May
Newton, Frederick Edwin

ARLINGTON

Weed, Robert Campbell

ATTLEBORO

Thompson, Ralph Cameron

AUBURNDALE

Jewett, Harold Frederick

BOSTON

Allington, Courtney Derby
Appleton, Paul
Bailey, Ervin George
Barnes, Joel Martin
Bernstein, Joseph
Blake, Lucien Ira
Blood, Alice Frances
Bresnahan, John Francis
Bugbee, Edward Everett
Burgess, Alexander Manlius
Burket, Ivan Roy
Burr, Frank Arthur
Cook, Ward Hance
Davis, Lewis
Denis, Willey
Edwards, Evie James
Eldredge, Alfred Henry
Faragher, Paul Vance
Faragher, Warren Fred
Fisher, Henry Donald
Fiske, Cyrus H.
Foster, Vernon S.
Frery, Charles Samuel
Fritch, Howard Fowler
Gallagher, Francis Edward
Gann, John Adams
Gilbert, Ralph Davis
Hale, Robert Sever
Hartwell, John Bryant
Hazen, Howard Spencer
Heuser, Chester Henry
Hewes, Fred Leland
Higbie, Henry Harold
Jackson, Dugald Caleb
Johnson, Franklin Paradise
Karsner, Howard Thomas
Kilgore, Alson Raphael
Knight, Ira Winsor
Koon, Sidney Graves
Kraus, Charles August
Lang, James Sherburne
Loughlin, Gerald Francis
MacLane, Stanley Robinson
Main, Roscoe Conkling
Marvin, Henry Howard
Medlar, Edgar Matthias
Newell, Lyman Churchill
Norton, John Foote
Nunez, Vasco Emilio
Overlander, Charles Leonard
Parker, William Huntington
Peters, Amos William
Porter, Charles Huntington
Randall, Merle
Rudd, Edward Irvine
Russell, Joseph Heywood
Schorer, Edwin Henry
Shimer, Hervey Woodburn
Smith, Theobald
Solomon, Harry Caesar
Terwilliger, David Mills
Thomson, Harry Freeman

BOSTON—Continued

Twomey, Francis Sylvestre
Warren, Charles Hyde
Warren, Edmund Leon
Wells, Roy Titus
West, Erastus Lovette
Williams, Leonard Worcester
Williston Arthur Lyman
Wilson, Edwin Bidwell

BROOKLINE

Haigler, Florence Harlow (Derby)
(Mrs. Charles Edmund Haigler)

CAMBRIDGE

Adams, Comfort Avery
Barus, Maxwell
Bovie, William T.
Brown, John Howard
Brues, Charles Thomas
Bunker, John Wyman Miller
Cushing, Philip Stone
Daniels, Farrington
Davis, Donald Walton
Davis, Harvey Nathaniel
Davison, Donald Berryhill
Duncan, John Charles
East, Edward Murray
Graton, Louis Carl
Gross, Alfred Otto
Harding, Adalbert
Johnson, Douglas Wilson
Jones, Grinnell
Kyriakides, Lucas Petron
Mann, William Montana
Marks, Lionel Simeon
Morgulis, Sergius
Morse, Harry Wheeler
Norton, Arthur Edwin
Nourse, Chester Linwood
Nusbaum, Christian
Osterhout, Winthrop John
Palache, Charles
Johnson, Douglas Wilson
Pound, Roscoe
Putnam, Frederic Ward
Raymond, Percy Edward
Robertson, William Rees
Sabine, Wallace Clement
Tytzer, Ernest Edward

CHICOPEE FALLS

Sparrow, Stanwood Willston

DORCHESTER

Walton, Albert

EAST WALPOLE

Landon, Horace Zebina
Sands, Howard Emmet

EAST WATERTOWN

Tousley, Nelson Elbridge

FALL RIVER

Hicks, Leslie Robert

FITCHBURG

Barnes, William Oliver

HOPEDALE

Burnham, Edward Clifton

HOLYOKE

Blount, Rufus Frank
Boegehold, Carl Winter
Greenwood, Arthur

LAWRENCE

Ripley, Philip Franklin

LYNN

King, Harold Merriam

MEDFORD

Shrader, James Edmond

MILLBURY

Ryan, George Herbert

MILLERS FALLS

Alden, Edward Mooee

MASSACHUSETTS—Continued

- NEWTON HIGHLANDS**
 Banfield, Frederick Eugene
NEWTONVILLE
 Harrington, Charles Brigham
NORTHAMPTON
 Brant, Laura Cinderella
 Smith, Frances Grace
 Snow, Julia Warner
PITTSFIELD
 Blume, Louis Frederick
 Currie, Neil, Jr.
 Dickinson, William Jay
 Paddock, Brace Whitman
 Slade, Walter Clifton
QUINCY
 Crain, John Jay
ROXBURY
 Driske, Arthur H.
SHARON
 Field, George Wilton
SHELBURNE FALLS
 Hamilton, Edward Parmelee
 Tuthill, James Foster
SOUTH EASTON
 Pierce, Robinson
SOUTH HADLEY
 Brightman, Charles Lewis
 Carr, Emma Perry
 Hayes, Samuel Perkins
 Stokely, Alma Gracey
 Talbot, Mignon
SOUTH HARWICH
 Julien, Alexis Anastay
SWAMPSCOTT
 Hamann, Henry George
TAUNTON
 Gris , Romeo Arthur
WATERTOWN
 Duncan, William Wheeler
 Flora, Charles Paxson
 Whittemore, Herbert Lucius
WEBSTER
 Goldthwait, Charles Francis
WELLESLEY
 Ferguson, Margaret Clay
 Gamble, Eleanor A. McCulloch
 McDowell, Louise Sherwood
 Raymond, Katherine Piatt
 Snow, Laetitia Morris
 Stevenson, Louisia Stone
 Wiegand, Karl McKay
 Wiegand, Maude (Cipperly)
 (Mrs. Karl McKay Wiegand)
WELLESLEY—Continued
 Willcox, Mary Alice
WESTFIELD
 Robbins, Laurence Ballard
WEST LYNN
 Moss, Sanford Alexander
WILLIAMSTOWN
 Agard, Harry Leslie
 Cleland, Herdman Fitzgerald
 Freli, Janet May (Sheldon)
 (Freli, Mrs. Theodore)
 Mears, Brainerd
WOODS HOLE
 Drew, Gilman Arthur
WORCESTER
 Allen, Charles Metcalf
 Baird, John Wallace
 Bird, William Warren
 Bonnet, Frederic, Jr.
 Butterfield, Arthur Dexter
 Calhane, Daniel Francis
 Conant, Levi Leonard
 Cummings, Herbert Kimball
 Duff, Alexander Wilmer
 Ewell, Arthur Woolsey
 Fish, Elmer Henry
 French, Arthur Willard
 Gallup, David Lamprey
 Goddard, Robert Hutchins
 Harvey, John Chapin
 Hoffman, Leland Silas
 Hull, Albert Wallace
 Hull, Mary Shore (Walker)
 (Mrs. Albert W. Hull)
 Haynes, George Henry
 Ives, Howard Chapin
 Jones, Arthur Taber
 Jennings, Walter Louis
 Martin, George Francis
 Miller, Newton
 Olshausen, George Robert
 Palser, George Norman
 Phelon, Joseph Oliver
 Pierce, Clarence Albert
 Read, Carleton Allen
 Richey, Albert Sutton
 Roys, Francis William
 Smith, Alton Lincoln
 Smith, Harold Babbitt
 Stevens, Lewis Chester
 Sweetser, Robert Chauncy
 Williams, Frank Blair
 Woodbury, John Edward
 Young, Foster Verne

MICHIGAN

- ALBION**
 Greene, Clarence Wilson
ANN ARBOR
 Adams, Henry Foster
 Agnew, James Howard
 Alden, Whiting
 Allen, John Robins
 Anderson, Henry Clay
 Bailey, Benjamin Franklin
 Baker, Horace Burrington
 Barrett, Albert Moore
 Bartell, Floyd Earl
 Bauer, Owen Werner
 Bigelow, Samuel Lawrence
 Bragg, Edward Milton
 Camp, Carl Dudley
 Campbell, Edward DeMille
 Carney, Robert John
ANN ARBOR—Continued
 Case, Ermine Cowles
 Clark, Robert Watson
 Colby, Walter Francis
 Cole, Harrie Newton
 Cone, Lee Holt
 Cook, Charles Wilfred
 Cooley, Mortimer Elwyn
 Cope, Otis Merriam
 Cowie, David Murray
 Crane, Harry Woven
 Cummings, Howard Hasting
 Curtis, George Morris
 Curtiss, Ralph Hamilton
 Davis, Joseph Baker
 Decker, Arthur James
 Dunbar, Frances Jewett
 Edmunds, Charles Wallis
 Emswiler, John Edward

MICHIGAN—Continued

ANN ARBOR—Continued

Field, Peter
 Finch, Frank Richard
 Ford, Walter Burton
 Garretson, William Van Nest
 Gates, Frank Caleb
 Gilbert, Quinter Olen
 Glaser, Otto Charles
 Gleason, Henry Allen
 Glover, James Waterman
 Gomborg, Moses
 Greene, Albert Emerson
 Grossmann, Herman John August
 Guthe, Karl Eugen
 Hale, William Jay
 Hall, Arthur Graham
 Hamilton, Stuart McCune
 Hegner, Robert Wilhelm
 Henderson, William D.
 Hewlett, Albion Walter
 Higbie, Henry Harold
 Hildebrandt, Theophil Henry
 Hobbs, William Herbert
 Holland, Ray Kingsbury
 Hubbard, Winfield Scott
 Huber, Gotthelf Carl
 Hunt, Walter Fred
 Hus, Henri Th. Antoine de Leng
 Hussey, William Joseph
 Jickling, Robert Lee
 Johnson, Laurence Crane
 Johnston, Clarence Thomas
 Kamperman, George Abel Paul
 Kauffman, Calvin Henry
 Kraus, Edward Henry
 Langley, John Williams
 La Rue, George Rogers
 Leverett, Frank
 Lind, Samuel Colville
 Littleton, Jesse Talbot, Jr.
 Lombard, Warren Plimpton
 Love, Clyde Elton
 Lovell, Alfred Henry
 Marks, James Harmon
 Marshall, Mark
 McOmber, Loren Wallace
 Mellencamp, Frank John
 Nancrede, Charles Beylard de
 Newcombe, Frederick Charles
 Novy, Frederick George
 Okkelberg, Peter Olaus
 Otis, Charles Herbert
 Parker, Ralzemond Drake
 Patterson, George Washington
 Perrine, James Owen
 Peterson, Reuben
 Pierce, Archie Burton
 Pillsbury, Walter Bowers
 Pollock, James Barkley
 Randall, Harrison McAllister
 Reed, John Oren
 Reighard, Jacob Ellsworth
 Rich, Daniel Leslie
 Rich, Edward Dunbar
 Riggs, Henry Earle
 Roth, Filebert
 Roth, George Byron
 Rutherford, George Stanley
 Ruthven, Alexander Grant
 Sadler, Herbert Charles
 Schlotterbeck, Julius Otto
 Schmidt, Harry Burke
 Scott, Irving Day
 Shepard, John Frederick
 Shull, Aaron Franklin
 Sink, Emory Walter
 Slocum, George
 Smeaton, William Gabb
 Spooner, Charles Willett
 Stevens, Alvisio Burdett, Jr.
 Streeter, George Linus

ANN ARBOR—Continued

Tanner, Harry Laurence
 Thompson, Crystal
 Thorp, Lambert
 Tilden, Charles Joseph
 Van Zwailuwenburg, James Gerritt
 Vaughan, Victor Clarence
 Warren, Luther Fiske
 Warthin, Aldred Scott
 West, Clarence Jay
 White, Alfred Holmes
 Willard, Hobart Hurd
 Williams, Gardner Stewart
 Wuist, Elizabeth Dorothy
 Young, Leigh Jarvis
 Ziwet, Alexander
 Zowski-Zwierzchowski, Stanislaus
 Jan

BATTLE CREEK

Benson, Walfred
 Myers, Ralph E.
 Thomas, Robert Richardson

BIG RAPIDS

Karshner, Clyde Fenworth
 St. Peter, Wilfred Napoleon

DETROIT

Ayres, Louis Evans
 Berry, Maxwell Rufus
 Boxmeyer, Charles Herbert
 Burton, Frank
 Case, John Watrous
 Closson, Oliver Eugene
 Cooley, Thomas Benton
 Coon, Thurlow Emmett
 De Visser, John Henry
 Diack, Archibald Warren
 Fishleigh, Walter Turner
 Fleshiem, Robert Stephenson
 Flynn, James Howard
 Garrels, John Carlyle
 Gillett, Horace Wadsworth
 Gillmore, Gertrude Assheton
 Gutsche, Edward Jacob
 Hastings, Donald Theodore
 Helfman, John
 Huff, Russell
 Huntoon, Milton Byron
 Irwin, Orlando W.
 Jamieson, Andrew Douglas
 Jones, Albert Barnett
 King, Walter Edward
 Levy, David J.
 Loye, Benjamin W.
 Mattern, Roy Edwin
 McClelland, Carl C.
 Miles, Ezekiel Jones
 Miller, LeRoy F.
 Morse, Plinn Frederick
 Neerken, Adrian John
 Norris, Paul Elfred
 Norton, Henry Hazard
 Nydegger, John
 Pettengill, Irving Wilbert
 Plumb, Roy Alfred
 Russel, Sidney Rumney
 Studer, Elliot William
 Tinkham, Ralph Russell
 Tracy, Kenneth William
 Vaughan, John Walter
 Vaughan, Victor Clarence, Jr.
 Vinton, Warren Jay
 Walker, James Herbert
 Walton, Hiram Lessiter
 White, Eli
 Wilhelm, Eugene B.
 Wood, Cooper
 Woolfenden, John Joseph
 Zimmerschied, Karl Wilhelmj

MICHIGAN—Continued

EAST LANSING

Bessey, Ernst Athearn
 Bissell, George Welton
 Bouyoucos, George John
 Coons, George Herbert
 Giltner, Ward
 Hibbard, Rufus Percival
 Hunt, Agnes
 Huston, Ralph Chase
 Marti, William Christoph
 Melick, Cyrus Alan
 Pettit, Rufus Hiram
 Robinson, Charles Summers
 Shafer, George Daniel

FLINT

Baumgardner, John Andrew
 Gomph, Clarence Jeremiah
 Stimson, Morris Henry

GLADSTONE

Katzenstein, Sidney W.

GRAND LEDGE

Niles, Byron Deloss

GRAND RAPIDS

Baker, Abel James
 Baldwin, Melvin Dana
 Billings, Elton Pope
 Darling, Lewis Andrew
 Gordon, Thomas DeWitt
 Hefferan, Mary
 Parsons, Lewis Abraham
 Smith, Thomas Albert

HASTINGS

McNall, Jessie Jones

HILLSDALE

Alger, Harley Clifford

HOUGHTON

Anderson, William
 Denton, Frederick W.
 Haigler, Florence Harlow (Derby)
 (Haigler, Mrs. Charles E.)
 Mendelsohn, Albert
 Paine, Francis Ward
 Sperr, Frederick William

ISHPEMING

Hawley, Charles Burrige
 Taylor, Carl A.

JACKSON

Burd, Edward Morris
 Davock, Harlow Noble
 Maytharm, Walter John
 Parnall, Christopher Gregg
 Perkins, Wendell LeRoy
 Pierce, Hugh Marion

KALAMAZOO

Bach, Ellen Botsford
 Cooper, Grace Beers
 Fleming, Harry Cowles
 Harvey, LeRoy Harris
 Ward, Leslie Henry

KALAMAZOO—Continued

Willey, Vernon Justice
 Worth, Earl N.

LANSING

Dixon, Robert Livingston
 Smith, Richard A.
 d'Zeeuw, Richard

LAKE LINDEN

Benedict, Centennial Harry

LESLIE

Greene, Arthur Emery

MANISTIQUE

Schoemaker, William Ross

MARQUETTE

Fracker, George Cutler
 Hebb, Thomas Carlyle
 Hebb, Evelyn Sherwell Hayden
 (Hebb, Mrs. Thomas Carlyle)

MIDLAND

Barstow, Edwin Ormond
 Dow, Herbert Henry
 Griswold, Thomas, Jr.
 Strosacker, Charles John
 Wallis, Roy Clarence

MT. PLEASANT

Billings, Marion LeRoy
 Calkins, R. D.

MUSKEGON

Bates, Albert Henry
 McKee, Frank Eugene
 Wilson, Sherman Ray

NEGAUNEE

Miller, Edgar Allan

NILES

Kendall, Valerius Horatio

OWOSSO

Arnold, Harry Loren

RIVER ROUGE

Outwater, Olive E.

SAGINAW

Palmer, Russel Burr
 Sample, John Thomas

SAULT STE. MARIE

Edmands, Horace Matthew
 French, Edwin Linton
 Strong, Sidney Davis

THREE RIVERS

Bliss, Guy L.
 Hovey, William Simmons

TRI-MOUNTAIN

Work, Paul Bartholomew

WYANDOTTE

Vorce, Lafayette Denton

YPSILANTI

Bowen, Wilbur Pardon

MINNESOTA

ADAMS

Smith, Ernest Vernon

ALBERT LEA

Jaquess, Agnes

AURORA

Poore, Orson Birney

BIWABIK

Stake, Alma Louise

BRainerd

Donovan, Percy Williams
 Ide, Arthur Wheaton

CLOQUET

Hartley, Eugene C.

COLERAINE

McCullough, Albert Steele

CROOKSTON

Bilsborrow, James D.

DULUTH

Ejorge, Oscar Bernard
 Buck, Frederick William
 Downing, Frank Eugene
 Gaumnitz, Florence
 Jones, Bessie Emily (Bowman)
 (Jones, Mrs. Lorin H.)
 Kelly, Earl Wallace
 Marble, Ralph

MINNESOTA—Continued

DULUTH

Ringsred, Arthur Christian
Owens, William Abbott
Tuohy, Edward Leo
VanCleaf, Eugene

FAIRFAX

Walker, George Hamilton

FARIBAULT

Crawford, Wallace T.
Huxley, Frederick R.
Kuhlmann, Fred

FERGUS FALLS

Baker, Axel Conrad
Grass, Charles Frederick

GAYLORD

Johnson, Anna Josephine

GLENCOE

Nickerson, Bernard S.

GRACEVILLE

Cox, Richard Ferguson

HIBBING

Wesbrook, Donald McDermid

HOPKINS

Souba, W. H.

HUTCHINSON

Berger, Nanda M.

LIVERNE

Downey, Katherine Melvina

MINNEAPOLIS

Allen, Harry Winslow
Allen, William Fitch
Anderson, Deborah M.
Anderson, John G.
Appleby, William Remsen
Ball, Frank Morris
Bartholow, Claude Apheus
Bass, Frederic Herbert
Bauer, George Neander
Bean, Arthur Neal
Becker, George
Bell, Elexious Thompson
Bennett, Cora
Bliss, Frank Walker
Bowles, Oliver
Brenton, Benjamin Francis Parlett
Brooke, William Ellsworth
Brown, Edgar Dwight
Brown, John C.
Bruce, Rosamond (Thompson)
(Bruce, Mrs. Charles A.)
Burgum, Harry Pitkin
Bussey, William Henry
Butters, Frederic King
Caplin, Jessie F.
Chalmers, Charles Henry
Christianson, Peter
Clements, Edith (Schwartz)
(Mrs. Frederic Edward Clements)
Clements, Frederic Edward
Cohen, Lillian
Cole, Ruth Fitch
Constant, Frank Henry
Cooke, Louis Joseph
Cooper, Thomas Poe
Corbett, J. Frank
Craig, Robert
Cutler, Alvin Sayles
Dalaker, Hans H.
Davis, Perley Alton
Derby, Ira Harris
Dorsey, Maxwell Jay
Downey, Hal
Downey, John Florin
Drake, Charles Ralph
Eddy, Henry Turner
Edmonds Irene (Radcliffe)
(Mrs. F. N. Edmonds)

MINNEAPOLIS—Continued

Emerson, Byron Todd
Erikson, Henry Anton
Evans, Nevada Sutherland
Ewy, Edwin Walter
Fidlar, Edward
Finke, Walter J.
Flather, John Joseph
Frankforter, George Bell
Frary, Francis Cowles
Frazier, William Hardy
Frear, Jenness B.
Gates, Frederic William
Gibson, Robert Banks
Grout, Frank Fitch
Hall, Christopher Webber
Hamilton, Arthur Stephen
Hanauer, Monroe
Harding, Everhart Percy
Harrington, Guy Pirnbrake
Hartzell, Mary Kezie
Haynes, Arthur Edwin
Head, George Douglas
Herrick, Carl Albert
Hibbard, C. Truman
Hickok, Jessie (Stevens)
Hickok, Mrs. Harvey M.)
Hill, Hibbert Winslow
Hilton, William Atwood
Hoag, William Ricketson
Holman, William Frank
Holway, Edward Willet Dorland
Houston, Charles Kent
Hovda, Olaf
Huff, N. L.
Hummel, John Adolph
Hunter, William Hammett
Jaquet, George Emile
Johnson, A. Walford
Johnson, Charles Eugene
Johnston, John Black
Jenks, Albert Ernest
Jensen, Estelle Louise
Jensen, John Arthur
Kavanaugh, William Harrison
Keyes, Ruth (Eddy)
(Mrs. Chas. F. Keyes)
Kirchner, Frank J.
Kirchner, William Herman
Kovarik, Alois Francis
Kunze, William Frederick
Leavenworth, Francis P.
Leavitt, Clara K.
Lee, Thomas George
McCarty, Edward Prosper
McDaniell, Orianna
MacDermid, Kate
McKeehan, Louis Williams
MacMillan, Conway
McMillan, Franklin R.
Magnusson, Gustav Alfred
Maland, Clarence
Marsh, Richard Dana
Martenis, John Van Sickle
Maxeiner, Stanley R.
Miner, James Burt
Misz, Alice Margaret
Mohler, Bruce Monroe
Mullin, Robert Hyndman
Nachtrieb, Henry Francis
Newkirk, Burt Leroy
Nicholson, Edward Everett
Nye, Lillian L.
Otto, Robert Walter
Parcell, John Ira
Paulson, Marjorie (Cole)
(Mrs. Clarence A. Paulson)
Pease, Levi Beckley
Pitchford, G. Leonard
Poppe, Frederick Harold
Poppe, Frederick

MINNESOTA—Continued

MINNEAPOLIS—Continued

Priester, George Cornelius
 Robertson, Harold Eugene
 Rosendahl, Carl Otto
 Rowley, Frank E.
 Ryan, William Thomas
 Sardeson, Frederick William
 Sedgwick, Julius Parker
 Scammon, Richard Everingham
 Schlutz, Frederick William
 Scott, Frederick Hughes
 Schrader, Herman F.
 Schumacher, John Henry
 Shenehon, Francis Clinton
 Shepardson, George Defrees
 Shipley, Sylvanus Carl
 Shoop, Charles Franklin
 Shumway, Royal Raiss
 Sidener, Charles Frederick
 Sigerfoos, Charles Peter
 Slobin, Herman L.
 Smith, Charles Horton
 Smith, Roy Howard
 Snyder, Harry
 Soper, Edward Kirke
 Souba, Frederick J.
 Soule, Stephen Barber
 Springer, Frank Wesley
 Stacy, Elmer Neill
 Stakman, Elvin Charles
 Stewart, Alexander
 Stewart, John T.
 Sundt, Matthias
 Svendsen, George Peter
 Swenson, David Ferdinand
 Tilden, Josephine Elizabeth
 Underhill, Anthony Lisenard
 Ungerman, Carl Mugg
 Vincent, Jay Carter
 Walker, George Thompson
 Walker, George Warren
 Washburn, Frederick Leonard
 Webber, Frederick Walter
 Wentling, John Philip
 Westbrook, Frank Fairchild
 West, Rodney Mott
 White, Solon Marx
 Whittaker, H. O.
 Wilhoit, Albert Davis
 Winchell, Newton Horace
 Woodrow, Herbert
 Woods, Albert Fred
 Wyman, Alanson Phelps
 Zeleny, Anthony
 Zeleny, John

MOOREHEAD

Freeman, Frances Rebecca
 Hockett, Sebern Waldo

NEW LONDON

Oppegard, Manford O.

NORTHFIELD

Cowling, Donald John
 Dugay, Neil Stanley
 Exner, Franz Frederick
 Glasoe, Paul Maurice
 Kent, Carleton Volney

PIPESTONE

Arzt, Emmanuel Arthur

RED WING

Smith, Paul Sherbourne

ROCHESTER

Smithies, Frank William
 Steinke, Carl Rossow
 Wilson, Louis Blanchard
 Zander, Charles H.

SLEEPY EYE

Hillesheim, Clara
 Schmidt, Gottfried

ST. ANTHONY PARK

Wilson, Archie Dell

ST. CLOUD

Hone, Dalsy S.
 Johnsrud, Iver F.
 Sutton, Charles Stewart

ST. HILAIRE

Dahl, Christen Frederick

ST. PAUL

Beckjord, Walter Clarence
 Berger, Ella Gustavia
 Bull, Coates Preston
 Bracken, Henry Martyn
 Briggs, Florence Mayfred
 Campbell, Albert A.
 Campbell, John E.
 Cheyney, Edward Gheen
 Cole, Wallace
 Dobbin, Emily Elisabeth
 Fanning, Mary Gilmore
 Freeman, Edward Monroe
 Gaumnitz, Daniel Asher
 Haecker, Theophilus Levi
 Hartwell, George Wilbur
 Hoff, Alfred
 Jackson, Earle Daniel
 Kennedy, William Walker
 Ladd, Albee Lovejoy
 Larsen, Martin L.
 Moore, W. A.
 Olander, Joshua Edwin Emanuel
 Otto, Frederick Arthur
 Robbins, Orison B.
 Roehrich, Victor H. Martini
 Ruggles, Arthur Gordon
 Shepard, George M.
 Smith, Byron Eton
 Smith, Roy Howard
 Stanton, Raymond Edward
 Thompson, Mackay James
 Walker, Frank Bates
 Yager, Louis

STILLWATER

Veblen, Andrew Anderson

TWIN VALLEY

Nilson, Wilhelm

VIRGINIA

Partridge, Jarvis Montgomery

WORTHINGTON

Mason, Frank Melville

MISSISSIPPI

ABERDEEN

Ewing, Early Cunningham

AGRICULTURAL COLLEGE

Brown, Harry Bates
 Logan, William Newton

AGRICULTURAL COLLEGE—Con-
tinued

Reid, Clarence Erle

JACKSON

Kirkpatrick, Walter Gill

MISSOURI

CAPE GIRARDEAU
Wagner, Claude L.

CENTRALIA
Starr, Chester Gibbs

COLUMBIA
Allison, Harry Orson
Ames, Lewis Darwin
Backus, Lee Seldon
Branson, Edwin Bayer
Brown, William George
Calvert, Sidney
Calvert, William Jephtha
Chandler, William Henry
Charters, Jessie (Allen)
(Mrs. Werrett Wallace Charters)
Connaway, John Waldo
Curtis, Winterton Conway
Dodds, Gideon Stanhope
Dolley, David Hough
Douglass, Thomas Rankin
Dunkel, Otto
Durand, Elias Judah
Eckles, Clarence Henry
Fessenden, Edwin Allen
Flowers, Alan Estis
Ford, Lester R.
Galney, Percy Leigh
Gibson, Robert Banks
Greene, Charles Wilson
Haseman, Leonard
Haigh, Leonard Dixon
Hedrick, Earle Raymond
Hibbard, Herbert Wade
Hill, Agnes Sime Baxter
(Mrs. Albert Ross Hill)
Hill, Albert Ross
Hogan, Albert
Howard, Walter Lafayette
Hutchison, Claude Burton
Hyde, Abraham Lincoln
Ingold, Louis
Jackson, Clarence Martin
Keene, Mary Lucille
Kellogg, Oliver Dimon
Lefevre, George
Lowrey, Lawson Gentry
McNatt, Homer Elkanah
Marbut, Charles Fletcher
Meyer, Max
Miller, Merritt Finley
Miller, Walter McNab
Moulton, Charles Robert
Mumford, Frederick Blackmar
Noyes, Guy Lincoln
Palmer, Leroy Sheldon
Pyle, William Henry
Reed, George Matthew
Reese, Herbert Meredith
Rentschler, Harvey Clayton
Rodhouse, Thomas Jacob
Root, Ralph Eugene
Schaefer, Oscar Charles
Schlundt, Herman
Shaw, Howard Burton
Steele, Matthew
Stewart, Oscar Milton
Stokes, Stanley
Tanreuther, George Washington
Tarr, William Arthur
Trowbridge, Perry Fox
Vanatta, Elmer Elsworth
Weaver, Luther Abraham
Weinbach, Mende Penco
Weiss, Albert Paul
Westfall, Wilhelm David Allen
Wheelock, Frank Elbert
Whitlow, Joseph Andrew
Whitten, John Charles
Woodward, Edwin Garder

DONIPHAN
Martin, Charles Knox

FLAT RIVER
Ring, Ambrose Ely
Stannard, Earl Tappan

JOPLIN
Cook, Frederick Stephen
Saathoff, George Webster

KANSAS CITY
Burns, Clinton Sumner
Castle, Otto Leslie
Cross, Roy
Duke, William Waddell
Ellis, George Ezra
Emley, Samuel Charles
Farwell, Elmer Selah
Goodman, James Franklin
Gustafson, Carl Frederic
Hardesty, Shortridge
Harrington, John Lyle
Hoxie, George Howard
Kackley, Walter John
Kizer, Raymond Alvan
Lee, Colin Kingsley
Long, Verne Vere
Lusk, Charles Winslow
McDonnell, Robert Emmett
McVey, Karl Absalom
Medes, Grace
Meyers, Alfred Moyer
Nisbet, Verner
Ogden, Floyd Price
Palmer, Walter Kiefer
Prince, John Walter
Rinker, (Fenner) Hattie
(Rinker, Mrs. Robert L.)
Russell, George Silas
Schell, Edward John
Schrenk, Trifon von
Schumacher, Ramon
See, Russell Alva
Worley, John Stephen

KENNETT
Elsea, Earl Newton

LEXINGTON
Rogers, Hugh Chilton

LIBERTY
Crossley, Moses Leverock
Goodson, William Hammack

MARSHALL
Seawell, Benjamin Lee
Stephens, Virgil Ray

MARTIN CITY
Rusk, Earl Wilson

MONETT
Meany, James M.

PARKVILLE
Findlay, Merlin Chamberlin

RIDGEWAY
Walker, Lora Hennessey
(Walker, Mrs. J. H.)

ROLLA
Greene, Frank Cook

SPRINGFIELD
Brooking, Joseph Hugh
Finkel, Benjamin Franklin
Fitch, Ruby
Hall, Edward Bennington

ST. JOSEPH
Farnum, Ellen (Pendergast)
(Farnum, Mrs. A. W.)
Favor, Ernest Howard
Good, Clarence Allen
Seitz, William Kerlin

MISSOURI—Continued

ST. LOUIS

Abbott, James Francis
 Alford, Leland Barton
 Alt, Arnold Dettman
 Baldwin, Frederick Amos
 Bowles, John Davis
 Brown, Orville Harry
 Coburn, Maurice
 De Witt, Lydia Maria Adams
 (DeWitt, Mrs. Alton D.)
 Dock, George
 Drushel, J. Andrew
 Eales, Herbert William
 Eddy, Ernest Arthur
 Edgar, Thomas Oscar
 Edsall, David Linn
 Emig, William Harrison
 Emmel, Victor Emanuel
 Engler, Edmund Arthur
 Erlanger, Joseph
 Fischer, Robert
 Fleisher, Moyer Springer
 Galt, Charles Elijah
 Garrey, Walter Eugene
 Gill, Charles M.
 Gould, Myrtle Pearl (Campbell)
 (Mrs. Benjamin B. Gould)
 Hardy, Chester Harvey
 Hilliard, Frank Wyman
 Holman, Minard Lafever
 Hopkins, Ross
 Huntington, Albert Henry
 Jackson, Dennis Emerson
 James, George Oscar
 Jolley, Harold Dean
 Kaiser, William Henry
 Kammerer, Alfred Lewis
 Kelser, Edward Harrison
 Kessler, John Jacob, Jr.
 Kirchner, Walter Charles George
 Kunkel, Louis Otto
 Kuntz, Guy Theodore
 Lamke, George William
 Langsdorf, Alexander Suss
 Lindsay, George Allan
 Loeb, Leo
 Losse, Louis Henry
 Lyon, Elias Potter
 McCourt, Walter Edward

ST. LOUIS—Continued

McGuigan, Hugh
 McMaster, LeRoy
 Mann, Ned Chester
 Marietta, Clyde Orlando
 Mathiason, Gertrude Karen
 Moody, Seth Enoch
 Moore, George Thomas
 Morris, Roger Sylvester
 Myer, Max Washington
 Neilson, Charles Hugh
 Nipher, Francis Eugene
 Nolte, August George
 North, William Atkinson
 Ohle, Ernest Linwood
 Ohlweiler, William Woodward
 Opie, Eugene Lindsay
 Pearce, Arthur Sperry
 Rayworth, Joseph Chappell
 Richards, Ethel Leigh
 Ringer, Frank
 Roever, William Henry
 Rosing, Marjory Scheel
 Sackett, Clark Harold
 Schoemaker, Daniel Martin
 Schramm, Jacob
 Schrenk, Hermann von
 Shaffer, Philip Anderson
 Shepherd, Charles William
 Smith, Frank Edwin
 St. John, Richard Collier
 Terry, Robert James
 Thompson, Charles Henry
 Timmerman, Arthur Henry
 Trelease, William
 Turner, Charles Henry
 VanOrnum, James Lane
 Veeder, Borden Smith
 Waldo, Clarence Abiathar
 Wallace, Erwin Van Doren
 Woodward, Calvin Milton
 Yates, Clinton Talbot

WARRENSBURG

McAllister, Cloyd North
 Stigall, Bennett Merriman

WEBB CITY

Williams, Bruce

MONTANA

ANACONDA

Laist, Fred

BILLINGS

Garnsey, William Smith, Jr.
 Sneckenberger, Earl Miner

BOZEMAN

Chesnut, Victor King
 Spaulding, Milo Herrick
 Sullivan, George Leonard
 Thaler, Joseph Auken
 Weatherhead, Drury Lee

BUTTE

Billingsley, Paul
 Bowman, Charles Henry
 Cahoon, Charlotte Deming
 Dow, James Chase
 Fear, Lyle Gordon
 McGill, Caroline
 Rodes, Charles Bradford

GREAT FALLS

Church, John Adams

GLENBEG, WICKES

Robison, Archer R.

HAUSERLAKE

Stussy, William

HAVRE

Haverson, Henry David

HEDGESVILLE

Vasku, Frank

HELENA

Gerry, Martin Hughes
 Pratt, Arthur Clarence
 Smyth, Arthur Porter

HYSHAM

Buckingham, Henry Hine

LAND COULEE

Fugman, Victor Charles

LIBBY

Ransom, Webster Hamilton

MILES CITY

Buskirk, William Henry

MISSOULA

Greely, William Beckhout
 Harkins, William Draper
 Kirkwood, Joseph Edward
 Rowe, Jesse Perry
 Sibley, Robert

MOORE

Manchester, James Eugene

ST. IGNATIUS

Prendergast, Arthur

VIRGINIA CITY

McConnell, Robert Earll

NEBRASKA

AGATE

Cook, Eleanor (Barbour)
(Cook, Mrs. Harold James)

ASYLUM

Pillsbury, Lawrence Bell

BELLEVUE

Tyler, Ansel Augustus

BLAIR

Capps, Earl Vanhise

CLARKS

Little, Donna Lavonne (Withey)

CRAIG

Anderson, Charles Edward

FREMONT

Johnson, Earle George

HAVELOCK

Forman, William Olivet

LINCOLN

Almy, John Edwin
Alway, Frederick James
Angle, Edward John
Avery, Samuel
Barker, Franklin Davis
Barbour, Carrie Adeline
Barbour, Erwin Hinkley
Bengtson, Nels August
Bessey, Charles Edwin
Borrowman, George
Bouton, Rosa
Boyce, John Shaw
Brenke, William Charles
Bruner, Lawrence
Burnett, Edgar Albert
Candy, Albert Luther
Chase, Leon Wilson
Chatburn, George Richard
Condra, George Evert
Dales, Benton
Davis, Ellery Williams
Emerson, Rollins Adams
Engberg, Carl Christian
Fordyce, Charles
Fossler, Mary Louise
Frankforter, Clarence Jackson
Gere, Mariel Clapham
Gilmore, Melvin Randolph
Guenther, August Ernest
Hilton, David Clark
Hinman, Alice (Hamlin)
(Hinman, Mrs. Edgar Lenderson)
Hoagland, Albert Leroy
Hoff, Robert Lee
Hollister, Vernon Leo
Hopt, Erwin
Howard, Robert Francis
Klesselbach, Theo Alexander
Kohn, Nella Gabrielle (Schlesinger)
Laughlin, Joseph William
Loveland, George Andrew
Lyman, Rufus Ashley
McComb, Harold Edgar
Martin, Wade Randall
Mickey, Clark Edwin
Mitchell, Claude William
Moore, Burton Evans
Morse, George Hart
Nicholson, Henry Hudson
Pepperberg, Roy
Pool, Raymond John
Powers, Joseph Horace
Schramm, Eck Frank
Shaw, Ora James

LINCOLN—Continued

Skinner, Clarence Aurelius
Sponsler, Olenus Lee
Stout, Oscar Van Pelt
Sturdevant, LaZelle Brantly
Swenk, Myron Harmon
Swezey, Goodwin DeLoss
Tate, John Torrence
Trumbull, Robert Samuel
Tuckerman, Louis Bryant
Waite, Herbert Harold
Walker, Elda Rema
Walker, Leva Belle
Weaver, John Ernest
Webster, Edith Leonore
Westgate, Vernon Vilas
Wilcox, Edwin Mead
Willard, William Albert
Wolcott, Robert Henry
Zimmer, John Todd

LONG PINE

Wortman, John L.

MCCOOK

Jenkins, William Gibson

MARTELL

Moore, William Henry Harrison

MILLARD

Fossler, John Jacob

NORMAL

Ames, Adeline Sarah

NORTH PLATTE

Birge, Alice Miranda
Welch, Hershey Samuel

OAKLAND

Swenson, Samuel August

OMAHA

Anderson, William Nance
Bennett, Charles Abel
Bourg, Joseph Nicholas
Davis, Byron Bennett
Denny, Frank Earl
Ernst, Flora Grace
Hamilton, William Garfield
Hoffhine, John
Lieber, Charles
Lott, Antone Lyman
Noyes, Hiland Bachellor
Peister, Edwin Rudolph
Peterson, Alfred Olaf
Ross, Samuel Holcomb
Rubendall, Clarence
Senter, Herbert Almon
Stebbins, Eunice
Stringer, Caroline Effie
Tucker, James C.

ORD

Almy, Billings Grinnell
Squires, David Henry

PERU

Hofman, Fred Wenzl

SCHUYLER

Nieman, Henry William

STROMSBURG

Boostrom, Emil August

UNIVERSITY PLACE

Latimer, Homer Barker
Scarborough, Ray James
Williams, Cyrus Vance

YORK

Ryan, Walter J.

NEVADA

ELY

Dobbins, John Leslie
Lakenan, Cornelius B.

EUREKA

Aspinall, Rupert Frederick

GOLDYKE

Bishop, Wheeler Scott

McGILL

Mucklow, Wilford Barber

RENO

Hartman, Leon Wilson
Haseman, Charles
Johnston, Oscar Perry

RENO—Continued

Jones, J. Claude
Mack, Winfred Berdell
Smith, William Sydney Tangier
Young, George Joseph

ROUND MOUNTAIN

Ernest, Richard Hermann

TONOPAH

Elftman, Arthur Hugo

WONDER

Burgess, John Albert

YERINGTON

Weck, Charles Albert

NEW HAMPSHIRE

CLAREMONT

Walker, Allison

CONCORD

Hirst, Edgar Clarkson
Nelson, Theophilus

DUNHAM

O'Kane, Walter Colline

DURHAM

Black, Caroline Anna
Brooks, Charles
Gibbs, Perla (Bowman)
(Gibbs, Mrs. Wm. David)
Gibbs, William David
Jackson, Alma Drayer
(Jackson, Mrs. C. Floyd)
Jackson, Cicero Floyd
Katz, Sidney Hersberg
Perley, George Arthur

DURHAM—Continued

Pickett, Bethel Stewart
Taylor, Frederick Wellington

HANOVER

Bingham, Walter VanDyke
Dines, Charles Ross
Goldthwait, James Walter
Haskins, Charles Nelson
Nichols, Ernest Fox
Pitcher, Arthur Dunn
Proctor, Charles Albert
Stewart, Colin Campbell
Stetson, Harlan True
Young, John Wesley

MILTON

Barrows, Walter Irving
Reid, Alexander Hugh

NEW LONDON

Hall, Henry Jewett

NEW JERSEY

ATLANTIC CITY

Wescott, William Carter

BAYONNE

Dodge, Francis Despard
McAfee, Almer McDuffie
MacKenzie, Kenneth Gerald
Thompson, John Fairfield

BLOOMFIELD

Hall, Roy Dykes
Harskeeper, William Gibbons
Hiatt, Cassius Eugene
Marbaker, Edward Ellsworth
Meyer, John Franklin

CAMDEN

Howe, Samuel Purdy

CAPE MAY COURT HOUSE

Geyer, George Washington

CHATHAM

Hewitt, Charles Elbert

CHROME

Duffy, Edward Allen

COLLINGSWOOD

Garland, Claud Mallory

CONVENT STATION

Dorety, Sister Helen Angela

DOVER

Ayer, William Travis
Canfield, Frederick A.
Willcox, Oswin William

EAST ORANGE

Berry, Morphy Edison
Dellenbaugh, Frederick S., Jr.
Higby, Seth Morton
Hill, Ernest Rowland
Parker, John Emilius
Porter, Ethel (Chamberlin)

EAST ORANGE—Continued

Steuber, Henry John
Van Duyne, Wilmer Charles
Williamson, George

EDGEWATER

Carleton, Robert Andrew Wood

ELIZABETH

Miller, Mary Farrand (Rogers)
(Miller, Mrs. Wilhelm)

FLEMINGTON

Ludy, Albert Klenzie

FRANKLIN FURNACE

Johnson, Arthur Michael

GLOUCESTER

Breckenridge, James Miller
White, Arthur Jennings

GLOUCESTER CITY

Knoedler, Elmer Louvestus
Palmer, Howard Earle

HAMSON

Freeman, Herbert Augustine

HARRISON

Amrine, Thomas Hamer
Frear, Henry North

HOBOKEN

Hodge, Percy
Woods, Samuel Hamilton

JERSEY CITY

Eurich, Frank, Jr.
Graham, Margaret

LONG BRANCH

Flowers, Dean Wilcox

MAPLEWOOD

Chamberlain, Aimes Reading

NEW JERSEY—Continued

MARTINSVILLE
English, Harry Crawford

MILLBURN
Jewett, Fannie Cornelia Frisbie
(Jewett, Mrs. Frank Baldwin)

MONTCLAIR
Bedell, Raynor Monroe
Hart, Howard Farnum
Leonhauser, Harry Alexander
Kent, William
Newell, William
Walker, Ralph Eric

NEWARK
Benham, Harrison Merwin
Bixel, Edward C.
Blood, Bryant Harmon
Coe, Frederick Sears
Darrow, Wirt Edward
Gay, Frazer Walker
Hinsdale, Paul Milton
Krementz, Richard
Losee, Frank Ira
Martin, Frank
Merz, August
Olshausen, George Robert
Sargent, Charles Lawrence
Sinclair, J. Edwin
Smith, Temple Clifford

NEWARK
Thorp, Isaac Jay
Willard, Frederic Wilson
Wilson, Cecil Floyd

NEW BRUNSWICK
Chidester, Floyd Earle
Cook, Melville Thurston
Davis, Kary Cadmus
Lipman, Jacob Goodale
Palmer, Erik Schjoth
Smith, Ralph Ogden
Van Dyck, Francis Cuyler

NEW LISBON
Chambers, Franklin Smith

ORANGE
Beach, Edwin Donald

ORANGETURGH
Mettler, Arthur J.

PALMYRA
Hitch, Lola Sevilla

PATERSON
Hilferty, Charles Dutton
Trowbridge, Elisha Grant

PERTH AMBOY
Fisher, Henry Wright
Lee, Engbert A.
McNitt, Robert Joseph
Merriss, Marion Hawthorne

PERTH AMBOY—Continued
Seil, Harvey Ambrose
Wilson, Clarence Edgar

PHILLIPSBURG
Redfield, Snowden Bayard
Winslow, George William

PLAINFIELD
Anthony, William Henry
De Lamater, Van Ness
Hopton, Lemuel Robert

PLAINSBORO
Jeffers, Henry William

PRINCETON
Anderson, Walter Edmund
Bennett, Albert Arnold
Birkhoff, George David
Conklin, Edwin Grant
Harvey, Edmund Newton
Heaps, Claude William
Hulett, George Augustus
Kampmeier, Otto Frederic
Martin, James Cook
Shapley, Harlow
Sinclair, William John
Smith, Keith Kuenzie
Smyth, Charles Henry, Jr.
Suydam, Vernon Andrew
Thomas, Phillips
Veblen, Oswald
Williams, Kenneth Powers

RAHWAY
Murray, Benjamin Lindley

RIDGEWOOD
Hutton, Robert Leroy

RIVERSIDE
Pitts, Robert Mackey

SEWAREN
Lacy, Burritt Samuel

SUMMIT
Merriam, Henry Franklin

SUSSEX
Peck, Ellery Newell

TRENTON
Bellis, Horace Doolittle
Braunworth, Percy Lewis
Moore, Emmeline

TRENTON
Morrison, Max Philip
Sanders, Walter Edward
Vermuele, Cornelius Clarkson

TRENTON, JUNCTION
Secor, Wandell B.

WEST ORANGE
Geiger, George Augustus

WHARTON
Menefee, Arthur B.

NEW MEXICO

AGRICULTURAL COLLEGE
Burkey, Joseph Raymond
Hammond, Howard Spurr

ALBUQUERQUE
Angell, Martin Fuller
Bryan, Kirk
Recknagel, Arthur Bernhard
Weese, Asa Orrin

CLOVIS
Hinman, Harry Winfield
Lank, William John

HURLEY
Jourdin, Willis Wallace

LAS VEGAS
Springer, Frank

SACARRO
Coghlan, Byron Kemp
MacKay, Thomas Calvin

SANTA FE
Neel, Charles Herbert

NEW YORK

ADAMS

Penney, Albert Silas

ALBANY

Adey, William Henry
 Armer, Hiley Newton
 Boss, Lewis
 Berry, John McWilliams
 Bradley, Theodore James
 Cameron, Edward Madison
 Carpenter, Campbell, Colon
 Carpenter, William Morgan
 Chapman, Arnold Goodwin
 Cleveland, H. Burdett
 Cooper, Charles Proctor
 Deutschbein, Harry Johnson
 Dunham, Caroline Louise (Allen)
 (Mrs. Frederic G. Dunham)
 Eames, Frederick Marshall
 Felt, Ephraim Porter
 Hartnagel, Chris Andrew
 Kelley, Frederick Williams
 Kelly, John Francis
 Leighton, Henry
 McClellan, William
 McKeefe, Edward Patrick
 Miller, Edward Waite
 Miller, Harlan Dewey
 Myers, Victor Caryl
 Newland, David Hale
 Pearson, Raymond Allen
 Peck, John Calvin
 Pollock, Horatio Milo
 Porter, Frank Donald
 Roy, Arthur Jay
 See, George Corliss
 Taylor, Henry William
 Taylor, Walter Jennings
 Tucker, Willis Gaylord
 Van Name, Willard Gibbs
 Waterbury, Webster Earle
 Wheeler, Edward Jonathan
 Wills, John Gordon
 Whitlock, Herbert Percy

ALFRED

Lake, Dyer Barker

AMSTERDAM

Conover, Archie Randall
 Stewart, George C.
 Wilson, David

ANGELICA

Wilgus, Herbert Sedgwick

ARKVILLE

Newton, Edmund

AURORA

Gaehr, Paul Frederick

BATAVIA

Alexander, Charles Anderson
 Blight, Julia Norum

BEDFORD HILLS

Weidensall, Clara Jean

BINGHAMTON

Conlee, George Dyer
 Johnson, Herman Norton
 Ross, Mary Jane

BROOKLYN

Adams, Leon George
 Auringer, Arthur Jay
 Bartley, Elias Hudson
 Best, Lyman Austin
 Beyer, Albin H.
 Breitwieser, Herman George
 Carter, Effie Adeline
 Clark, Tracy Earl
 Cleaver, Charles
 Deiser, Norman Arthur
 Dix, Frank Stillman
 Dixon, De Forest Halstead

BROOKLYN—Continued

Enger, Arthur Ludvig
 Fiedler, Albert
 Fort, Edwin John
 Freedman, William Horatio
 Gager, Charles Stuart
 Gannett, Ray Willard
 Gobel, Frank Conant
 Harris, Lena
 Hoffman, Alfred
 Hulst, Francis A.
 King, Warner
 Kroger, Fred Hutton
 Leiser, Ferdinand, Jr.
 Lyall, Harold William
 Macon, William Watts
 Moody, Jessie (Holmes)
 (Moody, Mrs. H. I.)
 Noyes, Robert Edgar
 Oman, Charles Malden
 Payne, Edgar Long
 Peele, Grace Darling
 Rogers, Allen
 Ryon, Henry
 Shearer, Harold Hutchison
 Schumann, Carl Julius
 Smith, Eugene Randolph
 Smith, Marco Carmelich, Jr.
 Wagenseil, Oswald Martin
 Watson, Cassius Hinds
 Wheeler, George Benson
 White, Benjamin
 Wright, Richard Avery
 Wyckoff, Charles Rapelyia, Jr.

BROWN'S STATION

Miller, Herbert Eugene

BUFFALO

Bissell, Arthur Douglas, Jr.
 Busch, Frederick Carl
 Cole, Robert Titcomb
 Davis, Lynn Leroy
 Dubois, Wilbur Latimer
 Fritz, Walter Edward
 Haslam, Erwin Ernest
 Herden, Byron Voltaire
 Johnson, Albert Lincoln
 Kuhn, Joseph
 Lawton, Elmer Claud
 Love, Frank William
 March, Harry Joseph
 Reamer, Maude Josephine
 Roberts, John Thomas, Jr.
 Shepard, Alwin W.
 Sherry, Ralph Harrison
 Sibole, Barton Presley
 Wardwell, Mary Margaretta
 Witmer, Joseph Franklin

CANANDAIGUA

Gelder, Walter Hudson

CHAPPAQUA

Cox, Mary Alice (Nichols)
 (Cox, Mrs. John, Jr.)

CLINTON

Carruth, William Massey
 Fitch, Anna Louise (McKinnon)
 (Fitch, Mrs. Edward)
 Saunders, Samuel J.

COLD SPRING HARBOR, L. I.

Banta, Arthur Mangum
 Danielson, Florence Harris
 Davenport, Gertrude Anna (Crotty)
 (Davenport, Mrs. C. B.)
 Davenport, Charles Benedict
 Goodale, Hubert Dana
 Gortner, Ross Aiken
 Harris, James Arthur
 Shull, George Harrison

NEW YORK—Continued

- COHOES
Furbeck, George H.
Johnston, Harold Eddy
Penrose, Edward, Jr.
- COOPERSTOWN
Multer, Monte Josiah
- COPENHAGEN
Lockner, Sidney J.
- CORNING
Duschak, Lionel Herman
Duschak, Frances (Eschenburg)
(Duschak, Mrs. Lionel Herman)
Gage, Henry Phelps
Maxon, Arthur Lyman
- CORNWALL-ON-HUDSON
King, Eric Ture
West, Karl Frederick
- CORTLAND
Higgins, Reuben Paul
- COVENTRYVILLE
Parker, Charles Joel
- DEPEW
Hitchcock, James Ladd
Sayers, Boyd Ray
- EDMESTON
Ackerman, Fred Lee
- ELMHURST, LONG ISLAND
Austin, Herbert Sidney
- ELMIRA
Bovier, John Hammond
Jaggard, Herbert Armstrong
Kern, John William
Richmond, Francis Alanson
- ELMIRA HEIGHTS
Preston, Henry Wray
- FREDONIA
Hartzell, Frederick Zeller
- FLUSHING
Breckenridge, Clarence Edward
Ferguson, William C.
Slater, Mary Florence Wells
- FORT PLAIN
Williams, Joseph Dimock
- FREEPORT
Malcomson, Alfred Sidney
- FULTON
Emerick, Louis Warren
Shutler, Philip Foster
- GARDEN CITY, L. I.
Miller, Wilhelm
- GENESEO
Fraser, Samuel
- GENEVA
Conn, Harold Joel
Grossenbacher, John Casser
Harding, Harry Alexis
O'Neill, James George
Parrott, Percival John
Watson, Frank Elbert
- GLEN CONE
Tresselt, Oswald Herman
- GLENS FALLS
Patterson, Arthur Adams
Rhodes, Charles Foster
- GLOVERSVILLE
Cassedy, William Spencer
- HAMILTON
Child, Clement Dexter
- HASTINGS-ON-HUDSON
Beach, Harold Kenney
Kenyon, Otis Allen
- HERKIMER
Baker, E. Brown
- HIGHLAND
Lent, Andrew Wright
- HINCKLEY
Bennett, Louis Ray
- HOLLIS, L. I.
Marshall, D. T.
- HOOSICK FALLS
Cluett, Sanford Lockwood
- HORNERVILLE
Stephens, Frank William
- HUDSON FALLS
Derby, Archibald Stewart
Lewis, Leon Roy
- IRONDEQUOIT
Anderson, Hugh McVean
- ITHACA
Albert, Calvin Dodge
Allen, Arthur Augustus
Anderson, Ross Peter
Atkinson, George Francis
Ayres, Hiram Douthitt
Bailey, Liberty Hyde
Barnard, William Nichols
Barnes, Fred Asa
Barrus, Mortier Franklin
Barton, Calvin Lewis
Beal, Alvin Casey
Bedell, Frederick
Bentley, Isaac Madison
Bentley, John, Jr.
Bizzell, James Adrian
Black, John Alexander
Blaker, Ernest
Bradley, James Chester
Breed, Frank
Brown, Harry Philip
Briggs, Thomas Rowland
Browne, Arthur Wesley
Buehler, Albert George Frederick
Burnett, Samuel Howard
Capron, William Cargill
Carver, Walter Buckingham
Carpenter, Rolla Clinton
Cavanaugh, George Walter
Chamot, Emile Monnin
Church, Irving Porter
Clark, Charles Frederick
Comstock, Anna Botsford
Comstock, John Henry
Coville, Luzerne
Craig, Clyde Firman
Craig, John
Crandall, Charles Lee
Crosby, Cyrus Richard
Cross, Louis Josephus
Cushman, Blin Sill
Delbridge, Thomas G.
Dennis, Louis Munroe
Dickey, Malcolm Gillespie
Diederichs, Herman
Douglas, John Frederick Howard
Dresbach, Mervin
Duggar, Benjamin Minge
Durand, Albert Cyrus
Edwards, Austin Southwick
Embody, George Charles
Engeln, Oscar Diedrich von
Fish, Pierre Augustine
Fisher, Willard James
Fitch, Clifford Penny
Ford, Walter Stebbins
Forman, Alexander Hardje

NEW YORK—Continued

ITHACA—Continued

Frost, Howard Brett
 Fuertes, Louis Agassiz
 Gage, Susanna (Phelps)
 (Gage, Mrs. Simon Henry)
 Gage, Simon Henry
 Gage, Victor Raymond
 Galajtkian, Alexander Sarkis
 Galajtkian, Haig
 Galpin, Sidney Longman
 Gibbs, Roswell Clifton
 Gilbert, Arthur Witter
 Gill, Adam Capen
 Gillespie, David Clinton
 Gilmore, Ralph John
 Givens, Maurice Hope
 Harris, Gilbert Dennison
 Haskell, Eugene Elwin
 Hayes, Rud Bryant
 Herrick, Glenn Washington
 Hess, Howard Drysdale
 Hill, George Richard
 Hirschfeld, Clarence Floyd
 Hitch, Emmet Francis
 Hopkins, Grant Sherman
 Hopper, Herbert Andrew
 Houlehan, Arthur Earl
 Howe, Harley Earl
 Hoy, David Fletcher
 Humbert, Eugene Peter
 Hunter, Andrew
 Hurwitz, Wallie Abraham
 Hutchinson, John Irwin
 Hyde, Tom Bruce
 Illingworth, James Franklin
 Ives, Robert Austin
 Jacoby, Henry Sylvester
 Jensen, Jes Peter Frederick
 Jones, Frederick Sowden
 Karapetoff, Vladimir
 Kerr, Abram Tucker
 Kimball, Dexter Simpson
 Kingsbury, Benjamin Freeman
 Kingsbury, Marguerite (Hempstead)
 Knudson, Lewis
 Kramm, Hugo Edmund
 Law, James
 Leighty, Clyde Evert
 Leland, Ora Miner
 Livermore, Kenneth Carter
 Lloyd, John Thomas
 Love, Harry Houser
 Lundell, Gustave Ernst Frederick
 Lyon, Thomas Lyttleton
 McCool, Merris Mickey
 McCracken, George Lewis
 McDermott, George Robert
 McMahon, James
 Mann, Albert Russell
 Martin, Harriett Marie
 Matheson, Robert
 Mayer, Edwin Charles
 Mayes, Harry Welday
 Miles, Egbert J.
 Milks, Howard Jay
 Mills, Adelbert Philo
 Minns, Edward Russell
 Merritt, Ernest George
 Molby, Fred A.
 Moler, George Sylvanus
 Montgomery, Edward Gerrard
 Moore, Veranus Alva
 Morgan, Anna Haven
 Mulford, Walter
 Murdoch, Carleton Chase
 Nasmyth, George William
 Needham, James George
 Nichols, Edward Lemington
 Norriss, Henry Hutchinson

ITHACA—Continued

Ogden, Henry Neely
 Orndorff, William Ridgely
 Owens, Fred Williams
 Owens, Helen Barten (Brewster)
 (Owens, Mrs. Fred William)
 Pawling, Jesse Randolph
 Peebles, James Clinton
 Pertsch, John George, Jr.
 Preswick, Eugene Henry
 Prucha, Martin John
 Ranum, Arthur
 Rathjen, Edwin Frederick
 Reddick, Donald
 Redfield, Harry Westfall
 Reed, Hugh Daniel
 Rice, James Edward
 Richtmyer, Floyd Karker
 Ries, Heinrich
 Riley, William Albert
 Rodgers, Ralph Chapman
 Rogers, Clarence Arthur
 Rosenbaum, Joseph
 Ross, Harold Ellis
 Rowlee, Willard Winfield
 Sawdon, Will Miller
 Schideler, William Henry
 Schoder, Ernest William
 Sharpe, Francis Robert
 Shearer, John Sanford
 Sheldon, Pearl Gertrude
 Shetterly, Fred
 Simpson, Sutherland
 Smith, Albert William
 Smith, Lucy Wright
 Smith, Philip Edward
 Smith, Ruby Green Bell
 (Smith, Mrs. Albert William)
 Snyder, Virgil
 Somerville, Albert Alexander
 Stewart, Vern B.
 Stocking, William Alonzo, Jr.
 Stryke, Anna Clegg
 Tailby, George Walter, Jr.
 Tanner, John Henry
 Taylor, Hawley Otis
 Thomas, Melvin Francis
 Thompson, George Ellsworth
 Tinker, Martin Buel
 Titchener, Edward Bradford
 Turner, Ebenezer Tousley
 Udall, Dennie Hammond
 Upton, George Burr
 Warren, George Frederick
 Warren, Mary (Whitson)
 (Warren, Mrs. George Frederick)
 Webber, Herbert John
 Welsh, Thomas Whitney Benson
 Whetzel, Herbert Hice
 Whipple, Guy Montrose
 White, Gorrell Robert
 White, Ward Benjamin
 Wilber, David Truxton
 Williams, Harvey Daniel
 Williams, Henry Shaler
 Williams, Roger Butler, Jr.
 Williams, Walter Long
 Wilson, Charles Scoon
 Wing, Henry Hiram
 Winters, Rhett Youmans
 Wood, Eugene Harper
 Wright, Albert Hazen
 Wright, Anna (Allen)
 (Wright, Mrs. Albert Hazen)
 Wright, Floyd Robins

JAMAICA

French, James Benton
 Linville, Henry Richardson
 Massey, Myrtle Lothrop

NEW YORK—Continued

JORDAN

Howe, Anna Mayme

KINGSTON

Tremper, Burton Morss

LAKE GEORGE

Imrie, Daniel Ferguson

LAMONTVILLE

Hutchins, George Pelton

LEWISTON

Morgan, James Warren

LITTLE FALLS

Feldmeier, Harvey

LOCKPORT

Millar, Roger Alexander

LONG ISLAND CITY

Bond, Stanley Frank

Zons, Frederick William

LYONS

Volcker, Paul Adolf

MASSENA

Groat, Benjamin Feland

Rickey, James Walter

Ward, Roy Elsen

Whitsit, Lyle Antrim

MECHANICVILLE

Crowell, Francis Sterling

Shoemaker, Harry

MIDDLEBURGH

Van Wormer, Wellington Eugene

MT. MCGREGOR

Howk, Horace John

NEWBURGH

Millett, Kenneth Ballard

NEW ROCHELLE

Schell, Orville Hickok

Otten, Leonard Flagg

NEW YORK CITY

Algeltinger, Arthur

Allen, William

Amend, Carl Gustave

Anderson, Rudolph Martin

Appleton, Francis Wirt

Arendt, Morton

Arnold, Harold DeForest

Austin, William Eugene

Baehr, George

Balcom, Homer Gage

Baldwin, Wesley Manning

Ball, Albert

Bancroft, Frank Watts

Barlow, DeWitt Dukes

Barnes, Frank Edwin

Barnum, Charles Gardiner

Barr, John Henry

Barre, Herbert Aubrey

Barton, Calvin Lewis

Bayley, Charles Abercrombie Dun-

bar

Beans, Hal Truman

Beardsley, Frederick Armour

Beardsley, Walter Douglas

Beck, George Elbert

Beckwith, Nathan

Beebe, Silas Palmer

Beinecke, F. W.

Beggs, George Erle

Belcher, Verner A.

Belmont, Franklyn Edward

Bennett, Charles William

Benedict, Stanley Rossiter

Berkey, Charles Peter

Bigelow, Maurice Alpheus

Biggs, Hermann Michael

Black, Adolph

Blake, Edwin Mortimer

NEW YORK CITY—Continued

Blanchard, Arthur Horace

Boas, Franz

Bogert, Marston Taylor

Bokop, Frederick Andrew

Boorman, Kitchell Monckton

Borg, Sydney Cecil

Bostroem, August, Jr.

Bouchard, Harry

Bradley, Phillip Reed

Brainin, Clement S.

Bredt, Edward Arthur

Briggs, Robert Wesley

Briggs, Zenas Marston

Britton, Nathaniel Lord

Browne, Kenneth Caulfield

Bruère, Alice Henrietta

Brun, Clement Benjamin

Bryan, Charles Walter

Burby, James Dennis

Burgoon, Charles Eli

Burr, William Hubert

Burroughs, Joseph Howell, Jr.

Burrows, Montrose Thomas

Caldwell, Edward

Caldwell, Eugene Wilson

Calkins, Gary Nathan

Campbell, William

Carpenter, Allan Wadsworth

Carples, Victor Hugo

Carr, Homer Lyman

Carrel, Alexis

Carter, Alfred Ellsworth

Casler, Melvin David

Cattell, James McKeen

Cauchois, Reginald Wadsworth

Cerussi, Peter Braglio

Chambers, Ralph Hamilton

Chandler, Albert Hotchkiss

Chandler, Charles Frederick

Channing, John Parke

Church, Elihu Cunyngham

Clark, Alva Benson

Clark, Ernest Dunbar

Clark, Frederick Huntington

Clark, John Powell

Clark, Paul Franklin

Clark, Sidney Milton

Clemmer, John Hugh

Clock, Ralph Oakley

Coburn, Edward Bernard

Coelos, Jules Auguste

Cohen, Nathan

Coleman, Harry Shipp

Coley, Clarence Tallman

Colyer, Charles Irving

Congdon, Edgar Davidson

Congdon, Howard Wilbur

Cooper, Ralph Stuart

Corbett, Harvey Wiley

Cornell, Charles Lorin

Corthell, Elmer Lawrence

Cox, Merlin Lee

Craft, Warren Moore

Crampton, Henry Edward

Crane, Albert Sears

Crocker, Francis Bacon

Crohn, Burrill Bernard

Crossman, Gilbert

Cummings, Noah

Curtis, Carleton Clarence

Curtis, John Greenleaf

Curtis, Robert William

Darrach, William

Darrow, Leo Harvey

Darrow, Raymond Cornwell

Davis, Bergen

Davis, Hugh Garnett

Davis, Reuben

Dawley, Clarence Augustus

NEW YORK—Continued

NEW YORK CITY—Continued

Day, William Schofield
 De Forest, Nora Stanton (Blatch)
 (De Forest, Mrs. Lee)
 Dennenberg, Carl Otto von
 Denno, Willard Joseph
 Derleth, Walter Taubert
 Dickerson, Mary Cynthia
 Ditman, Norman Edward
 Dodd, Frederick F.
 Dodge, Norman
 Dodge, Richard Elwood
 Dorsey, Herbert Grove
 Doubrava, Harry Wilfred
 Doyle, Edgar Dwight
 Drowne, Henry Bernardin
 Duncan, Harry Lee
 Dunn, Charles
 Dunn, Gano Sellick
 Eddy, Walter Hollis
 Edwards, James Harvey
 Egbert, Henry Drew
 Eide, Torris
 Elser, William James
 Ellenwood, Frank Oakes
 Elmen, Gustavus Waldemar
 Ewing, James
 Faber, Harold Kniest
 Falk, Kaufman George
 Falk, Milton J.
 Falk, Myron Samuel
 Falkenau, Robert Morris
 Famulener, Lemuel William
 Farr, Charles Everett
 Farrand, Livingston
 Farwell, Herman Waldo
 Ferguson, Jeremiah Sweetser
 Fetti, Charles Reinhard
 Finch, James Kip
 Fine, Morris S.
 Fisher, Harry Linn
 Fischer, Henry Baldwin
 Fisher, Joel Ellis, Jr.
 Fite, William Benjamin
 Flamulener, Lemuel William
 Flexner, Simon
 Folwell, Amory Prescott
 Ford, Frank Richards
 Ford, Hannibal Choate
 Forest, Henry Pelouze de
 Freas, Thomas Bruce
 Freeman, Alfred
 Freund, Otto Albert
 Freund, Mortimer
 Frissell, Lewis Fox
 Gaines, John Marshall
 Geer, Howard Earl
 Genung, Nelson Howard
 Gherardi, Bancroft
 Gibert, Frederick Edward, Jr.
 Giddings, Franklin Henry
 Gies, William John
 Gill, Frederick William
 Gillespie, Louis John
 Gladden, Charles Stephen
 Goddard, Pliny Earle
 Goehle, Otto Louis
 Goentner, William Beans
 Going, Charles Buxton
 Goldfarb, Abraham Jules
 Gorsline, Ernest Elisha
 Grabau, Amadeus William
 Gratacap, Louis Pope
 Gray, Clyde D.
 Greene, Russell DeCosta
 Groesbeck, George Swetland
 Grove, William Garrett
 Hale, Frank Eugene
 Hallock, William
 Halpin, Zachariah Power

NEW YORK CITY—Continued

Halsey, Frederick Arthur
 Hamilton, Francis Marlon
 Hanson, Wilmer Crooks
 Harper, Robert Almer
 Harrington, Walter Gardiner
 Hart, Benjamin F.
 Hartwell, Fred W.
 Haseman, John Diedrich
 Hastings, George Tracy
 Hastings, Thomas Wood
 Hawkes, Herbert Edwin
 Hawkesworth, John
 Hays, Harold Melvin
 Hazen, Tracy Elliott
 Healey, William Patrick
 Heidenberger, Michael
 Henry, Philip Walter
 Herrick, William Worthington
 Hering, Rudolph
 Hess, Edward
 Hilditch, Warren Witherell
 Himmelwright, Abraham Lincoln A.
 Hollick, Charles Arthur
 Hollingworth, Harry Levi
 Holmes, Gerald Anderson
 Hoobler, Bert Raymond
 Hood, Richard Hayden
 Hooker, Elon Huntington
 Houghton, Charles Edwin
 Hovey, Walter Freeman
 Howard, Anna Townsend
 (Howard, Mrs. Charles Walter)
 Howard, Charles Walter
 Howe, Marshall Avery
 Howe, Henry Marlon
 Howe, Paul Edward
 Humphrey, Calvin B.
 Humphreys, Frederick Brewster
 Humphreys, George Hoppin, Jr.
 Humphrey, Oswald D.
 Huntington, George Sumner
 Huntoon, Louis Doremus
 Hutton, Frederick Remsen
 Ingersoll, Howard Lyman
 Irwin, David Duryea
 Ives, Frederick Merwin
 Jackson, Abraham Wendell
 Jackson, Holmes Condict
 Jebejian, Nejib H.
 Jenkins, James Edgar
 Jewett, Frank Baldwin
 Joannes, Francis Eugene Yeates
 Johnson, Alexander
 Jouard, Farel Louis
 Joliet, Cavalier Hargrave
 Judd, Edward Knight
 Kaestner, Albert Carl
 Kains, Maurice Grenville
 Keller, Frederick Rowe
 Kemp, James Furman
 Kendall, Burton Warren
 Kendall, Edward Calvin
 Kern, Edward Frank
 Key, Benjamin Witt
 Kinsman, Richard Ellard
 Kirk, Charles Townsend
 Klaber, William
 Klein, Frederick
 Kleiner, Israel Simon
 Knowlton, Theodore Ely
 Kraus, Arthur
 Kress, Otto
 Kroff, Alfred Hemmer
 Kruse, Frederick, Jr.
 Kurtz, Ford
 Lambert, Charles Irwin
 Lamme, Maurice Allison
 Lancaster, George Y., Jr.
 Landers, Charles Scott

NEW YORK—Continued

NEW YORK CITY—Continued

Lawrence, George Alfred
 Lawton, Arthur Hamilton
 Lee, Frederic Schiller
 Lennes, Nels Johann
 Leggett, Willis Sargent, Jr.
 Levy, Arthur Bernard
 Llano, Antonio
 Loeb, Jacques
 Loening, Grover Cleveland
 Loewenstein, Jacob
 Lothrop, Alfred Pierce
 Lovell, Earle Brink
 Lotka, Alfred James
 Lucas, Daniel Ralph
 Lucke, Charles Eduard
 Ludwig, Julius Alfred
 Luke, David Lincoln
 Luquer, Lea McIlvaine
 Lush, Cuyler Warfield
 Lusk, Graham
 Lutz, Frank Eugene
 Lynn, Henry Hudson Edwin
 McAllister, Addams Stratton
 McClelland, Jesse Francis
 McGregor, James Howard
 MacNeal, Ward J.
 Manly, Charles Matthews
 Mann, Paul Blakeslee
 Manwaring, Wilfred Hamilton
 Marks, Louis Benedict
 Matthews, Alberta Cory
 (Matthews, Mrs. Fred E.)
 Matthew, William Diller
 Maury, Carlotta Joaquina
 May, David Thorpe
 Mead, Charles Searing
 Mead, Harry Levi
 Mehren, Edward John
 Merrill, Earl Abbott
 Mershon, Ralph Davenport
 Metzger, Floyd Jay
 Michailovsky, Benjamin
 Miller, Myrtle Helen
 Mills, John
 Mitchell, Samuel Alfred
 Mitchell, Walter Louis
 Moore, Benjamin
 Morecroft, John Harold, Jr.
 Morehouse, Lyman Foote
 Morgan, John Livingston Rutgers
 Morrill, Charles Virgin
 Morris, Frederick Kuhne
 Morrison, Charles Edward
 Morse, Leighton B.
 Morse, Max
 Mortimer, James Daniel
 Moses, Alfred Joseph
 Moss crop, William Addams
 Munroe, Henry Smith
 Murrill, William Alphonso
 Murlin, John Raymond
 Myers, John Hays
 Nelms, William Stockton
 Nelson, John Maurice
 Nelson, Nels Christian
 Nicholl, Roy Herbert
 Nichols, William Wallace
 Nye, Algernon Sidney
 Opitz, Russell Burton
 Osborn, Henry Fairfield
 Osburn, Raymond Carroll
 Osterud, H. L.
 Ottenberg, Reuben
 Packard, Charles
 Parish, Walnwright
 Parker, Herschel Clifford
 Parr, Harry Lillenthal
 Parsons, William Barclay
 Patterson, Silas Beach

NEW YORK CITY—Continued

Pedersen, Frederick Malling
 Peebles, Leighton H.
 Pegram, George Braxton
 Pegram, George Herndon
 Perkins, Frank Edson
 Perry, Clarence Arthur
 Pike, Frank Henry
 Pistor, George Emil John
 Polk, William Mecklenburg
 Popp, William Joseph
 Potter, Winfield Scott
 Potts, Clyde
 Powell, Frederick James
 Prentiss, Henrietta
 Prosser, Herman A.
 Pupin, Michael Idvorsky
 Quass, Ralph Leroy
 Rautenstrauch, Walter
 Read, Henry Lewis
 Reddick, Harry Wilfred
 Reynolds, Winfred Everett
 Richards, Herbert Maule
 Riddle, John Scott
 Riegel, Ross Milton
 Riker, George Newton
 Riley, Henry Alsop
 Riley, Wells Littlefield
 Roberts, Charles Asaph
 Robinson, Charles Albert, Jr.
 Robinson, Ernest Franklin
 Robinson, Floyd Lucien
 Rogers, John
 Rosenbloom, Jacob
 Rossiter, Ehrick Kensett
 Rothschild, Walter Louis
 Rulison, Elbert Theodore
 Ryan, John Joseph
 Rydberg, Per Axel
 Ryder, Ely Morgan Talcott
 Sanderson, Edwin Nash
 Sanford, Warren Bixby
 Saurel, Paul Louis
 Schieffelin, William Jay
 Schlapp, Max Gustav
 Schlichter, Walter Irvine
 Schulte, Hermann von Wechlinger
 Scripture, Edward Wheeler
 Seaver, Fred Jay
 Senior, Harold Dickinson
 Sever, George Francis
 Severinghaus, Willard Lesly
 Sewall, Frank Houghton
 Shackelton, William James
 Shakespeare, Franklin Heverin
 Shape, Robert Louis
 Sharp, Clayton Halsey
 Shaw, James William
 Sherman, Henry Clapp
 Sherwood, George Herbert
 Shreve, Richmond Harold
 Sloan, William Griffith
 Slosson, Edwin Emery
 Smith, Alexander
 Smith, Bertram Garner
 Smith, Howard Dwight
 Soper, George Albert
 Spencer, Charles B.
 Stacy, Henry Pomeroy
 Steinhart, Edna
 Stevenson, Reston
 Stifler, William Warren
 Stinson, Joseph Whitla
 Stockard, Charles Rupert
 Stone, George Cameron
 Stout, Arlow Burdette
 Storey, Thomas Andrew
 Stoughton, Bradley
 Strong, Oliver Smith
 Strong, Wendell Melville

NEW YORK—Continued

NEW YORK CITY—Continued

Struthers, Joseph
 Talkes, Louis Nelson
 Talmadge, Jesse Moore
 Tanz, Isadore
 Taylor, Alfred Ernest
 Taylor, Edwy Lycurgus
 Tea, Peter Louis
 Teeple, John Edgar
 Terrasse, George Louis
 Thacher, Henry Clarke
 Thomas, Clarence Proctor
 Thomas, Charles W.
 Thomasen, Edgar George
 Thorndike, Edward Lee
 Thro, William Crooks
 Thurston, Edward Day, Jr.
 Timmerman, Charles Edward
 Tombo, Carl
 Torrance, William Martin
 Tour, Reuben Simkin
 Tower, Ralph Winfred
 Trowbridge, Charles Christopher
 Tucker, Benjamin J.
 Tucker, Samuel Auchmuty
 Tugman, Orin
 Turner, Daniel Lawrence
 Tuthill, James Foster
 Van Dusen, Gardner Lewis
 Van Slyke, Donald Dexter
 Van Vleck, Ernest Allen
 Vehslage, Harold Edwin
 Vuite, Herman T.
 Wait, John Cassan
 Walker, Arthur L.
 Walker, Elisha
 Walker, Howard George
 Wallbridge, William Knickerbocker
 Wallin, Ivan Emanuel
 Walton, Joseph Bernard
 Ware, Howard Thomas
 Ward, George Merritt
 Webb, Harold Worthington
 Weed, Walter Harvey
 Weick, Charles William
 Weingarten, Frederick Seymour
 Wells, Arthur Cleveland
 Welty, Harry True
 Wendell, George Vincent
 Westfall, John Van Etten
 Wheeler, Edmund Burke
 Wheeler, Edwin Bennett
 Wessler, Harry
 Whipple, Doris William
 Whitaker, Milton C.
 Whitcomb, William Arthur
 White, James Gilbert
 Wiechmann, Ferdinand Gerhard
 Wiggers, Carl John
 Williams, Arthur Collins
 Williams, Harvey Daniel
 Williams, Jacob Paul Jones
 Williams, Roland Hugh
 Williams, Samuel Byron, Jr.
 Wills, Albert Potter
 Willmot, Sydney
 Wilson, Edmund Beecher
 Wise, Louis Elsborg
 Wise, Sidney Leo
 Wolff, Alfred Daniel, Jr.
 Wolf, Charles George Lewis
 Wood, Francis Carter
 Woodrow, Harry Ray
 Woticky, Charles Boyd
 Wright, Roydon Vincent
 Young, Rowland Lawrence

NIAGARA FALLS

Beers, Harold Smith
 Brown, Mortimer Jay

NIAGARA FALLS—Continued

Carpenter, Campbell Colon
 Carveth, Hector Russell
 Eshelman, Clarence Metz
 Graling, Verney
 Perkins, Alfred Emery
 Russell, Alexander
 Snowdon, Ralph Cuthbert

NORTH TONAWANDA

Vroman, Dow

NORTH TROY

Betts, Anson Gardner

NORWICH

Sage, Lillian Belle

NUNDA

Barron, John Hall

NYACK

Doig, Arthur Knox

ONEIDA

Allen, Grosvenor Noyes
 Baker, Harold Wallace
 Leonard, Stephen Rose

OSSINING

Walrath, Otto Jean

OSWEGO

Lawton, Walter Lewman
 Reddish, Thomas Henry
 Wadhams, Darius Thompson

OXFORD

Holmes, Harvey Nelson

PERRY

Benedict, Charles Holbrook

PHOENIX

Maiden, Joseph Plaisted

PINE PLAINS

Merchant, John Crap

PLEASANTVILLE

Knight, Annabel (Beach)
 (Knight, Mrs. Bertram G.)

PORT CHESTER

McWeeney, Lawrence Riley

POTSDAM

Brooks, John Pascal
 Wheeler, Edwin Bennett

POUGHKEEPSIE

Abbott, Edwina Eunice
 Blunt, Katherine
 Doan, Martha
 Murray, Elsie
 Pilcher, Lewis Frederick
 Todd, Leona Estelle
 Washburn, Margaret Floy
 White, Henry Seely
 Wick, Frances Gertrude

PORT JERVIS

Eldredge, Frank Ernest

PURLING

Emigh, William Chester

RAY BROOK

Garvin, Albert Henry

REBER

West, George Hutton

RICHMOND HILL

Macomber, Irwin John

RIVERDALE

Dean, Bashford

ROCHESTER

Bloxham, Thomas Earl
 Britton, George Chester
 Chambers, Victor John
 Chapman, Carlton Thorp
 Edmondson, George Joseph Nelson
 Ernsberger, Millard Clayton

NEW YORK—Continued

ROCHESTER—Continued
 Fairchild, Herman Le Roy
 Gale, Arthur Sullivan
 Hastings, Herbert
 Higby, Edwin Barker
 Hunter, Fred Walter
 Keyes, Frederick George
 Keller, Lloyd Marley
 Lawrence, Henry Edmund
 Little, Beekman Cox
 Lomb, Henry Charles
 Mosher, Howard Townsend
 Mossdrop, Alfred Milton
 Nims, Albert Armstrong
 Peck, Henry Waterman
 Punnett, Milton Baxter
 Wilcox, Perley Smith
 Wilder, Edward Lyman
 Winans, Edwin Henry

ROME
 Clark, Ida Adella Ross
 (Clark, Mrs. J. Edwin)

ST. JOHNSVILLE
 Horn, Adam John

SCHENEVUS
 Bennet, Raymond S.

SENECA FALLS
 Allen, William Gordon
 Sharp, Stella Emily

SHERBURNE
 Kutschbach, Harold Newton

SONYEA
 Munson, James Frederick

SOUTHAMPTON
 Cameron, Walter Scott

TONAWANDA
 Ayrault, Miles
 Barrally, Thomas Webster

TRUMANSBURG
 McLallen, Henry Crane

SCHENECTADY
 Allee, David Arthur
 Barnes, Alfred Henry
 Bassett, John Besler
 Becker, Walter J.
 Bell, James Clark
 Blair, Nathan Doud
 Broderson, Harry Peter
 Brunnett, Robert Leonard
 Callan, John Albert Charlton
 Chapman, Charles Herbert
 Champlin, Franklin Jerome
 Cheney, Edward Joseph
 Clark, Rodolphus Philip
 Cooper, Frank
 Cooper, Sidney Bruce
 Craighead, James Ray
 Creighton, Elmer Elsworth Farmer
 Cunningham, James Hannah
 Dalton, Ida (Hill)
 (Dalton, Mrs. William)
 Dantsizen, Christian
 Davies, Arthur Edgar
 Davis, Cassius Miles
 Day, Winterton James
 Doherty, Robert Ernest
 Ellery, Edward
 Ferguson, Olin Jerome
 Finch, Raymond J.
 Garis, Charles Frederick Flemming
 Garrison, Wilbert A.
 Girvin, Fred
 Gray, George Francis
 Grover, Harland Haviland
 Hambleton, Thomas
 Hamilton, William S. H.
 Hannigan, Thomas Edward
 Hull, John Irving

SCHENECTADY—Continued
 Kawara, Masaki
 King, Morland
 Knowlson, James Somerville
 Kruesi, August H.
 Lacy, Frederick Thurlow
 Landreth, Olin Henry
 Landreth, William Baker
 Lichtenberg, Chester Alan Arthur
 Lyon, George John
 Marx, Augustine
 Nash, Charles Anson
 Opdyke, Howard
 Parker, Glowacki Redfield
 Paul, William Edward
 Pepper, Albert Hartwell
 Phillips, Frank Dewey
 Rask, Louis
 Reid, George Harold
 Robinson, Lloyd Nash
 Sheldon, Lucian Ambler
 Stansel, Numan Reid
 Steinmetz, Charles Proteus
 Stoller, James Hough
 Teegarden, Chester Henry
 Thompson, George Ellsworth
 Travis, S. Vernon
 Truax, James Reagles
 Trumbull, Charles W.
 Turner, Leonard Whittier
 Van Alstyne, H. A.
 Vandergrift, Wayne Avril
 Van Dyke, Clifford Steele
 Watson, Wallis Cowl
 Weller, William Earl
 Westcott, Bayee Newcomb
 Whitmore, Peter J.
 Williams, Ernest Daniel
 Wood, Dann Leonard
 Wright, William Howard
 Young, Daniel Albert

SYRACUSE
 Archibald, Ebenezer Henry
 Blackman, Maulsby Willett
 Brainerd, Arthur E.
 Bray, William L.
 Brown, Harold Hiram
 Brunel, Roger Frederic
 Bullard, Warren Gardner
 Cashman, Marie Elizabeth
 Chamberlin, Dan Woleaver
 Clark, Dean
 Clark, Herbert Anthony
 Clark, Elizabeth Garrett
 Clark, Herbert Anthony
 Conway, Ernest Franklin
 Cunningham, John Wesley
 Decker, Floyd Fiske
 Dooley, Marion S.
 Gardener, Howard Tompkins
 Gordon, Nell E.
 Graham, William Pratt
 Hager, Edward Charles
 Hanford, George Arthur
 Hargitt, Charles Wesley
 Harris, Walter David
 Harvey, Frederick Addison
 Haskell, Robert Henry
 Holmes, Arthur
 Hopkins, Thomas Cramer
 Houghton, Alexis Charles
 Jones, Louis Cleveland
 Keenan, Ernest C.
 Knowlton, Frank Pattengill
 Lambert, Alice (Venters)
 Lambert, Mrs. Charles A.
 Lay, Robert Phinney
 Lindsey, Louis
 McCarthy, Edwin Florince

NEW YORK—Continued

SYRACUSE—Continued

Mathews, John Alexander
 Mavor, James Watt
 Meader, Fred Marlen
 Merritt, Elizabeth Read
 Metzler, George Frederick
 Mitchell, Louis
 Morton, Darwin Abbot
 Murphy, Ralph
 Northcott, John Arthur
 Nugent, Paul Cook
 Pattee, Ernest Noble
 Peck, Henry Allen
 Pennington, Leigh H.
 Perry, Clinton W.
 Phillips Ruth Laura
 Pratt, Daniel
 Rice, Lepine Hall
 Richardson, Charles Henry
 Roe, Edward Drake, Jr.
 Rogers, Charles Gardner
 Saunders, Frederick Albert
 Shepard, George H.
 Smallwood, Julian Chase
 Smallwood, William Martin
 Smith, Burnett
 Smith, Harry Monmouth
 Steensland, Halbert Severin
 Sperry Earl Eugene
 Vickers, Thomas McElderry
 Ward, Herbert C.
 Weiskotten, Herman G.
 Whitney, Rich Dean

TROY

Andros, Charles Henry
 Babcock, Charles David
 Calkins, Charles Dow
 Cary, Edward Richards
 Chillman Edward Fenemore
 Clark, Clarence Lee
 Clark, Elwyn Maxson
 Clark, LeRoy Walter
 Crockett, Charles Winthrop
 Doty, John William
 Edwards, Frederick
 Greene, Arthur Maurice, Jr.
 Headden, William Ralston
 Hechler, Fred George
 Hunter, Matthew Albert
 Jones, Edward Crosby
 Lawson, Thomas R.
 Lincoln, Azariah Thomas
 McClellen, Hugh Herbert
 McGiffert, James, Jr.
 Mason, William Pitt

TROY—Continued

Moody, Lewis Ferry
 Palsgrove, Grant Knauer
 Puffer, Louis Blackmer
 Rice, Edward Young
 Ricketts, Palmer Chamberlain
 Robb, William Lispenard
 Rousseau, William White, Jr.
 Schulte, Edward Delavan Nelson
 Slater Alfred Gale
 Taylor, David Brier
 Thompson, Dwinel Burt
 Thompson, Dwinel French
 Thompson Gordon Saxton
 Thompson, Harold Grant
 Turner, Benjamin Mitchell
 Weber, John Leroy
 Whitney, William Earl
 Williams, Wyant James
 Willson, Frank J.

UTICA

O'Brien, Abigail Adaline
 Pond, Raymond Ashley

VICTOR

Osborne, David Henry

WALTON

Rose, Alston Orange

WARWICK

Hitchcock, Fanny Rysam Mulford

WATERFORD

Abbott, Walter Russell
 Knickerbacker, John
 Koerner, Frederick Charles, Jr.
 Willis, Harry P.

WELLSVILLE

Schaller, Alvin Louis

WEST CAMDEN

Smith, Arma Anna

WHITE PLAINS

Allen, Frank William

WILTON

Brown, Harry Baldwin

WORCESTER

Genung, Lewell T.

YONKERS

Crehore, Albert Cushing
 Harris, Isaac Faust
 Kennedy, Herbert Leopold
 Miller, Max Merrill
 Ord, Herbert James
 Sikes, Zenas Harrison
 Wadsworth, Joel Edward

NORTH CAROLINA

CHAPEL HILL

Bell, James Munsie
 Brown, Wade Hampton
 Chrisler, Vivian Leroy
 Pratt, Joseph Hyde

CHARLOTTE

Firth, Joseph
 Wright, Thomas Judson, Jr.

GREENSBORO

Gilbert, George Herbert
 Little, Thomas Robinson
 Strong, Cora

HORSE SHOE

Morgan, James Oscar

LINVILLE

Gage, John Gray

RALEIGH

Mowbray, Albert Henry
 Ray, Burton Justice
 Sherman, Franklin, Jr.
 Tillman Opal Ione
 Withers, William Alphonso

WAKE FOREST

Brewer, Charles Edward

WEST RALEIGH

Vaughan, Lillian Lee

NORTH DAKOTA

AGRICULTURAL COLLEGE

Dynes, Oliver Wesley
Reynolds, Ernest Shaw

DOUGLAS

Grangaard, Henry Oswald

FARGO

Bell, William Bonar
Putt, Earl Berger
Shaw, John Austin
Spence, Bartholomew John
Ziefle, Adolph

GRAND FORKS

Brannon, Melvin Amos
Ruediger, Gustav Ferdinand
Spence, Bartholomew John
Stephenson, Edward Beattie

GRAND FORKS—Continued

Taylor, Albert Hoyt
Young, Robert Thompson

HUNTER

Critchfield, L. R.

LIDGERWOOD

Parsons, Arthur Leonard

STANLEY

Miller, R. C.

TAYLOR

Weyrens, Joseph Peter

UNIVERSITY

Hitchcock, Raymond Royce
Thompson, Clinton Adam

VALLEY CITY

James, McNeal Cole

OHIO

AKRON

Bissell, Frank Edward
Brookover, Charles
Frost, Harry Henry
Geer, William Chauncey
Meredith, Kenneth Llewellyn
Schade, James Walter
Steele, Frank Amos
Whitney, Francis Luther

BARBERTON

Austin, Arthur Oswin
Cruser, Frederick Van Dyke
Harter, Isaac, Jr.

BEREA

Fullmer, Edward Lawrence
Hoddinott, Richard James

BLUFFTON

Hirschler, Edmund John

CANTON

Petersen, John William

CINCINNATI

Benedict, Harris Miller
Carman, Joel Ernest
Dock, Howard
Eddy, Horace Taylor
Fabian, Francis Gordon
Fenneman, Nevin Melanchthon
Fischer, Martin Henry
Goettsch, Henry Max
Gullaudeau, Arthur
Hadfield, Frank Stanley
Hart, Joseph Hall
Howe, William Thomas Hildrup
Jones, Lauder William
Long, Carlos Pointon
More, Louis Trenchard
Powell, William Henry
Price, Victor Taylor
Ruth, Edgar Kingsbury
Slocum, Stephen Elmer
Steere, Charles Childs
Upson, Fred Wilbert
Wernicke, August Ludwig Paul
Whitacre, Horace J.
Wieman, Harry Lewis

CLEVELAND

Abbott, Robert Rowell
Adams, Ira James
Allen, Harry Lee
Ambler, William
Ayers, Augustine Ridenour
Barnes, Frederick Arthur
Baxter, Burke Morgan
Beahan, Willard
Bergen, William Joseph
Beman, Ralph

CLEVELAND—Continued

Bidle, William Sanford
Black, Homer Samuel
Blaser, Arthur Frederick
Blaser, William Edward
Bliss, Carl Edwin
Boertlein, John Charles
Bohrer, August Jacob
Boynton, Napoleon Hiram
Brehner, Claude
Brooks, Chester Kingsley
Burns, Dean
Burrell, Edward Parker
Cadwell, Charles Arthur
Chillas, Richard Burt, Jr.
Christian, Charles Henry
Collens, Clarence Lyman
Comstock, Frank Mason
Coppersmith, Charles William
Croxtan, David Thomas
Cunningham, John Ferguson
Cushing, Henry Platt
Dates, Henry Baldwin
Dawson, Jean
Dingle, Howard
Dubois, Norman Armin
Eddy, Clarence Leroy
Eynon, Howard Blaine
Fay, Harvey William
Feihl, Fred William
Fernald, Robert Heywood
Finck, Albert
Focke, Theodore Moses
Friedman, Adolph Jacob
Fulton, Charles Herman
Gaede, Oscar Louis
Gannett, Joseph K.
Geissler, Ludwig Reinhold
Goffing, Charles
Grant, Richard Frank
Hall, George Herbert
Henninger, John Gordon
Henry, Smith Tompkins
Hibben, Frederick Martin
Hodgman, Charles David
Hoffman, Robert
Howe, Charles Sumner
Hubbell, Benjamin S.
Hulett, Frank Erastus
Ives, Herbert Eugene
Jones, Lewis Meredith
Kappler, Harry John
Kemble, Thomas Seth
Klingman, Arthur Martin
Knirk, Carl Fred
Kurtz, Cyrus Bosworth
Lofquist, Harry Stephen
Lorenz, Charles Frederic

OHIO—Continued

CLEVELAND—Continued

Lovell, Frederick William
 Mabery, Charles Frederic
 Melendy, Jesse George
 Merrill, Albert Eli
 Merrill, George Schambs
 Miller, Dayton Clarence
 Neff, Frank Howard
 Nelson, John Harland
 North, Carl Uno
 Olivenbaum, John Emanuel
 Olmsted, Charles Thomas
 Osborn, Kenneth Howard
 Palmie, Anna Helene
 Plum, Harley Martin
 Pomeroy, Lawrence A.
 Porter, Charles Talbot 2nd
 Prentice, Philip Boynton
 Price, Howard Wade
 Fulman, Oscar Stoddard
 Roberts, Arthur Boardman
 Sheal, Robert Erwin
 Skiff, Warner Mason
 Smith, Albert William
 Smith, Roy Harman
 Smith, Stephen Herbert
 Snow, Harry Alfred
 Snyder, Robert Earle
 Spooner, Robert Henry
 Springsteen, Harry William
 Staley, Cady
 Stauffer, Clinton Raymond
 Steuer, Arthur Henry
 Stewart, George Neil
 Stocking, William Arthur
 Stratton, Harry Frost
 Strosacker, Charles John
 Sullivan, Walter Edward
 Sweetser, William Jordan
 Trumbull, Alonzo George
 Van Horn, Frank Robertson
 Veazey, William Reed
 Vose, Fred Hale
 Welfare, Harry George
 Whitman, Frank Perkins
 Wilker, Arthur Victor
 Williams, Arthur Baldwin, Jr.
 Wilson, Deionza Tate
 Winckler, Isaac Lewis
 Worthing, Archie Garfield
 Zesiger, Albert William

COLUMBUS

Arnold, Charles Lincoln
 Bachtel, Myron Ansel
 Barnett, Lella (Harvie)
 (Barnett, Mrs. Samuel Jackson)
 Barnett, Samuel Jackson
 Barrows, William Morton
 Bear, Firman Edward
 Beer, James Anderson
 Blake, Frederic Columbus
 Bleile, Albert Martin
 Bohannon, Rosser Daniel
 Boord, Cecil Ernest
 Bownocker, John Adams
 Boyd, James Ellsworth
 Bradford, Joseph Nelson
 Brenholts, Roy
 Caldwell, Francis Cary
 Coddington, Edward Foster
 Cole, Alfred Dodge
 Condit, Daniel Dale
 Crane, Evan Jay
 Dachnowski, Alfred Paul
 Davis, Vernon Hayes
 Davison, Alfred Watson
 Demorest, Dana James
 Detmers, Fredericka
 Dye, Clair Albert

COLUMBUS—Continued

Earhart, Robert Francis
 Edmonds, Mary Elizabeth
 Eno, Frank Harvey
 Erf, Oscar
 Evans, William Lloyd
 Foulk, Elma (Perry)
 Foulk, Mrs. Charles William
 Foulk, Charles William
 French, Thomas Ewing
 Funk, Agnes (Smiley)
 (Funk, Mrs. Lee W.)
 Giesy, Paul Miller
 Gill, James Herbert
 Griggs, Robert Fiske
 Haines, Thomas Harvey
 Hall, Ralph Edwin
 Hambleton, James Chase
 Henderson, William Edwards
 Hills, Thomas McDougall
 Hine, James Stewart
 Hinkle, Albert Harrison
 Hitchcock, Embury Asbury
 Hoskins, Roy
 Howell, Carl Eugene
 Hunt, John Herman
 Jaros, Zillah Heidenheim
 (Mrs. Ernest S. Jaros)
 Judd, Horace
 Kaufman, George Beecher
 Kellogg, David Raymond
 Kern, William Frederick
 Knight, William Abner
 Kuhn, Harry Waldo
 Landacre, Francis Leroy
 Landacre, Walter Alexander
 Lazenby, William Rane
 Lord, Henry Curwen
 Lord, Nathaniel Wright
 Lyman John Franklin
 McCampbell, Eugene Franklin
 McClure, Charles Walter
 McCoard, George Washington
 McCune, John Stokes
 McLellan, Marie Fansher
 McOmber, Loren Wallace
 McPherson, William
 Maclean, Margaret
 Magruder, William Thomas
 Manson, Edmund Sewall, Jr.
 Mark, Clara Gould
 Marshall, Frederick Rupert
 Metcalf, Clell Lee
 Mills, William C.
 Morrey, Charles Bradfield
 Morris, Clyde Tucker
 Morse, William Clifford
 Murray, Gerard Archibald
 Nold, John H.
 Norton, Sidney Augustus
 Orton, Edward, Jr.
 Osborn, Herbert
 Patterson, Austin McDowell
 Phillips, James McIlvane
 Plumb, Charles Sumner
 Price, Homer Charles
 Prosser, Charles Smith
 Purdy, Ross C.
 Raser, Samuel Eugene
 Rataiczak, Thomas Francis
 Ray, Franklin Arnold
 Rickard, Hortense
 Riddle, Howard Sterling
 Sanborn, Frank Edwin
 Schaffner, John Henry
 Shattuck, Howard Francis
 Sheard, Charles
 Sheets, Cree
 Sherman, Christopher Elias
 Simon, Trevor Burchfield

OHIO—Continued

COLUMBUS—Continued

Sisson, Septimus
 Smith, Alpheus Wilson
 Smith, Clara
 Somermeir, Edward Elsworth
 Staley, Homer Francis
 Starlin, William Alfred
 Stertzbach, Harry Walter
 Stratton, George Weatherworth
 Swartzel, Karl Dale
 Thomas, Benjamin Franklin
 Vivian, Alfred
 Weber, Henry Adam
 Weiser, Harry Boyer
 West, Carl Joseph
 White, David Stuart
 Wilkinson, John Anderson
 Withrow, James Renwick
 Witzemann, Edgar John
 Wyer, Samuel S.

CONNEAUT

Phelps, Roscoe Gaylord
 Treat, Frank Edward

DAYTON

Clements, Frank Orville
 Gebhart, Henry
 Kettering, Charles Franklin
 King, Roy Stevenson
 Kohr, Donald Alexis
 Mougey, Harry Clifford
 Williams, Harry Markley

DELAWARE

Higley, George Oswin

ELYRIA

Lloyd, Karl Ernest

FOSTORIA

Cogger, William Thomas Lee
 Cross, Edward Ostrom
 Kline, Zenas Clyde

FREMONT

Goodwin, Joseph Hugh
 Holmes, Willis Boit

GAMBIER

Walton, Lee Barker
 Welda, George Francis

GENEVA

Beach, Burr A.

GRANVILLE

Carney, Frank
 Coghill, George Ellett
 Lawton, Ellis Earle

HAMILTON

Lake, Charles Henry
 Pfau, William Henry
 Vaughn, Frank

HARTWELL

Cragg, Shirley Ray

HILLSBORO

Jeans, Philip Charles

LAKEWOOD

Lynn, Ralph Bell

LANCASTER

McCleery, Edna May

LEXINGTON

Smith, Harry Ford

LORAIN

Brown, Earle Wayne
 Farkell, George C.

MANSFIELD

Woltmann, Harro

MARIETTA

Coar, Henry Livingston
 Kreckler, Frederick Hartzler

MIAMI

Fink, Bruce

MT. VERNON

Dorr, Albert Wilford
 Fink, Bruce
 McNiece, Charles Rex
 Miller, Clyde Raymond
 Shuptrine, Harry Augustus
 Woltmann, Harro

NORWALK

Morse, Ralph Luther

OBERLIN

Branson, Edwin Bayer
 Chapin, William Henry
 Hubbard, George David
 McCullough, James Caldwell
 Moore, Edward James
 Nichols, Susan Percival
 Sinclair, Marye Emily
 Williams, Samuel Robinson

ORVILLE

Scott, Walter Glenn

OTTAWA

Johlin, Jacob M., Jr.

OXFORD

Brill, Harvey Clayton
 Davis, Benjamin Marshall
 Leach, Mary Frances

PAINESVILLE

Cumings, Homer P.
 Fernald, Grace Maxwell
 Noyes, Mary Chilton

PEEBLES

Wittenmyer, James Graham

PERRY

Tyler, Frederic Jared

PLAIN CITY

Davis, William Joseph
 Ruhlen, Frank

RACINE

Cross, Jessie Floy

RAVENNA

Mendenhall, Thomas Corwin

REYNOLDSBURG

Fitzgerald, Albert Daniel

SANDUSKY

King, Clifford Marshall
 Newberry, Andrew White
 Newbury, Spencer Baird
 Phelps, Gurley Sloan

ST. MARYS

Heisler, Charles Louis

TOLEDO

Britton, Glenn B.
 Demorest, Ralph Hugo
 McClure, Harry Clifford
 Price, Claude Elmer

WELLINGTON

Pratt, Jean Paul

WOOSTER

Carmichael, Berton Eugene
 Collison, Reginald Clinton
 Forbes, Ernest Browning
 Houser, John Samuel

YOUNGSTOWN

Campbell Louis J.
 Fawcett, Luther Thomas
 Thayer, Paul Folsom

ZANESVILLE

Pence, Forrest Kizer
 Whitmer, J. D.

OKLAHOMA

ALVA
Hubbard, Albert Kemp
ENID
Heaney, Arthur Noble
GUTHRIE
Howard, William Edward
MILL CREEK
Bloom, Jay George
NORMAN
Bozell, Harold Veatch
Gould, Charles Newton
Haseman, William Peter
Lane, Henry Higgins

NORMAN—Continued
Perrine Irvine
Shannon, Charles William
Snider, Luther Crocker

OKLAHOMA CITY
Carter, Jesse Lee
MacKintosh, William

STILLWATER
Chandler, Richard Edward
Etherton, William Alonzo
Moorehouse, Llewellyn Alexander
Sanborn, Charles Emerson
Stoner, Minnie Ava Nella

OREGON

ALBANY
Harrington, Arthur Strong
MacDuff, Nelson Ferris
ASHLAND
Staples, Charron Monell
CASCADE LOCKS
Thompson, Clark Wallace
COBURG
Washburn, Orson Monroe
CORVALLIS
Covell, Grant Adelbert
Ewing, Henry Ellsworth
Hillebrand, William Arthur
Jackson, Herbert Spencer
Lewis, Claude Isaac
Shepard, Edgar Raymond
Sykes, George Francis
CRESSWELL
Swift, Frank Houston
CRYSTAL
Rose, Jessie Perkins
THE DALLIES
White, Clarence Lester
EUGENE
Bovard, John Freeman
Gullion, Omar Ray
Leonard, Heman Burr
Pierce, Raymond Clark
Shinn, Frederick Lafayette
Stafford, Orin Fletcher
KLAMATH FALLS
Geiger, Arthur Edwin

MEDFORD
Janney, Emily Florence
O'Gara, Patrick Joseph
MILWAUKEE
Hall, Elmon Lawrence
PORTLAND
Ames, Fred Elijah
Baird, Alvin Walter
Barber, John Raymond
Bittner Adolf Frederick
Brandon, Henry Clay
Coldwell, Orin B.
Davenport, Royal William
Donald, Robert L'Amey
Gilbert Josiah Allen
Green, Clarence Jasper
Griffin, Frank Loxley
Hollister, Bertha Anita
Kummel, Julius Frank
LeTourneau, Edward Harold
MacLaren, John Dice
McLean, Franklin Chambers
Moore Joseph K.
Rands, Harold Alva
Sabin, Charles Gilbert
Selling, Lawrence
Solhaug, Jens Johan
Stevens, John Cyprian
Thorne, Norman Campbell

SALEM
Lewis, John Howard
SILVERTON
Kleinsorge, Rudolph Ernst

PENNSYLVANIA

ALLEGHENY
Affelder, Harry Fleishman
Hall, William Charles
ALTOONA
Dunklin, Gilbert Turner
Thomas, John Hastings
Williams, Alan Gillespie
AMBLER
Hough, William Jarrett H.
AMBRIDGE
Garlinghouse, Leslie Holmes
Paine, Clifford Emmett
Ruff, Edward John
ANNVILLE
Kreider Joseph Lehn
ARDMORE
Sellers, Horace Wells
ASHLEY
Northrup, Arthur Miller
BEAVER FALLS
Walker, Francis William, Jr.
BLAIRSVILLE
Ihlseng, Magnus Colbjarn

BRADYS BEND
Dewey, Edward Wilkins
BROOKVILLE
Corbet, William Wakefield
BRYN MAWR
Ferre, Clarence Errol
Johnston, William Demorest
Pinney, Edith
Reeds, Chester Albert
Stevens Nettie Maria
Weeks, Eula Adeline
CLARK SUMMIT
Rutherford, Thomas Arthur
CANONSBURG
Bosworth, Rowland Sherwood
Schade, Charles George

CHESTER
Bird, Harold Crusius
Klaer, Henry Jacob
Wyman, Levi Parker

CHESWICK
Cowell, Sophie Harriet (Lynden)
(Mrs. Arthur Wescott Cowell)

PENNSYLVANIA—Continued

- CLEARFIELD**
Stewart, Lever Flegel
- COLLEGEVILLE**
Fox, Henry
Rapp, Isaiah March
- CONNELLSVILLE**
Veser, Lucius Otto
- CORAOPOLIS**
Braden, Frank Robert
- CORRY**
Rowe, Harte Langdon
- CREIGHTON**
Kerr, Charles Henry
- CYNWYD**
Corson, Edward Foulke
- DALEVILLE**
Medway, Herbert Edwin
- DONORA**
Acomb, William Edward
- DU BOIS**
Blakeslee, Robert Byron
- EASTON**
Goldbeck, Albert Theodore
Kirkpatrick, Donald Morris
Mackay, Charles Smick, Jr.
Saxon, Louis
- EAST PITTSBURGH**
Chubb, Lewis Warrington
Hale, Fred James
Hardin, Charles Marks
Herr, Herbert Thacker
Kinsell, William Leonard
Shearer, Conway Wing
Skinner, Charles Edward
- EDGEWORTH**
Rorty, Malcom Churchill
- EPHRATA**
Fry, John Martin
- ERIE**
Clemens, Hays Hutchinson
Hughes, John Wilbur
Kessler, Armin George
Roth, Augustus Henry Halyard
Sprau, Benjamin William
Strickland, Charles Gunnison
Thompson, Alfred Whittecar
- ETNA**
McKee, William John
- FRANKLIN**
Bulmer, William Carr
Milton, William Ossian
- GERMANTOWN**
Andrus, Walter Haskell
- GETTYSBURG**
Granville, William Anthony
Kirby, Richard Shelton
Parsons, Louis Alexander
- GREENVILLE**
Samans, Walter
- GROVE CITY**
Sieplein, Otto Julius
- GWYNEDD**
Knapp, Kenneth Ralph
- HAMBURG**
Jacobs, Michael William, Jr.
- HARRISBURG**
Coover, Carson
Gilbert, Henderson
Hoffert, John Raymond
Miller, David Isaac
Romine, Edward Chapin
Surface, Harvey Adam
- HERSHEY**
James, Delas Lawrence
- HOKENDAUQUA**
Thomas, Samuel Richards
Williams, Edward Hall
- JOHNSTOWN**
Clarke, Edgar Whitney
Cook, James Monroe, Jr.
Dillenbeck, Arvin J.
Kress, James Edward
Marshall, Stewart McCulloch
Ottinger, Harry
Weaver, Frank Roderic
Winkler, Lewis Harry
- KINGSTON**
Jordy, Louis Cleveland
- LANCASTER**
Atlee, John Light
- LEBANON**
Light, Seth Andrew
- LEWISBURG**
Stewart, Norman Hamilton
- MCDONALD**
Barrett, Arthur
- MEADVILLE**
Akers, Oscar Perry
Hempstead, Louise
- MIDLAND**
Jett, Carter Coleman
- MIFFLINBURG**
Bikle, Paul Harold
- MILTON**
Jenkins, David John
- MYERSTOWN**
Stober, James Palm
- NEW CASTLE**
DeWeese, Dwight Combs
Fitzpatrick, Victor Benedict
- NEW KENSINGTON**
Chesley, John Osborne
- NORRISTOWN**
Richardson, William Waddle
Swaim, Charles Joseph
Tompkins, Ernest
- NORTH GIRARD**
Kepler, William Robertson
- PENCOYD**
Gregory, Arthur Main
Pollitt, Edward
- PHILADELPHIA**
Abbott, Alexander Crever
Addison, William Henry Fitzgerald
Albrecht, Herman Carl
Alliger, William Thomas
Armstrong, Alexander Floyd
Ashhurst, Astley Paston Cooper
Astley, George Mason
Austin, James Harold
Babb, Maurice Jefferis
Bache, Franklin
Bacon, Francis Rogers
Bainbridge, Empson Haines
Bair, Joseph Hershey
Bark, Elmer
Barker, Charles Whitney
Barker, Harold Charles
Bartle, Harvey
Bartle, Henry John
Baxter, Harold Alexander
Bechtel, John Clemmer
Bergey, David Hendricks
Berry, Herman Claude
Boehm, Walter Martinus
Boers, John Augustus
Bower, William Henry

PENNSYLVANIA—Continued

PHILADELPHIA—Continued

Brown, Amos Peaslee
 Brown, Raymond Lester
 Burr, Charles Walts
 Butterfield, Thomas Edward
 Calvert, Philip Powell
 Carnahan, Orson Allen
 Carnett, John Berton
 Carpenter, Howard Childs
 Casey, George Whitman
 Chambers, George Galley
 Church, Arthur Latham
 Colton, Harold Sellers
 Cope, Thomas Darlington
 Costello, John Lawrence
 Cowell, Harriet (Lyndon)
 (Mrs. Arthur Westcott Cowell)
 Crawley, Edwin Schofield
 Cret, Paul Philippe
 Croll, Walter Lewis
 Crowell, Walter Stillwell
 Davis, Bradley Moore
 Day, Franklin Miles
 Deichler, Lyn Waller
 Detwiler, Samuel Bertolett
 Dickey, Samuel Jackson
 Donaldson, Henry Herbert
 Doolittle, Charles Leander
 Doolittle, Eric
 Dorsett, Rae Shepard
 Downs, Ardrey Whiddin
 Easby, William, Jr.
 Eckfeldt, Frederick William
 Eckhardt, Engelhardt August
 Ehlers, Henry Edward
 Ehrenfeld, Frederick
 Eisenbrey, Robert Howard
 Eliason, Eldridge Lyon
 Elliott, Augustus Hull
 Emmlen, John Thompson
 Evans, Henry Brown
 Evans Owen Brooks
 Fairres, James Dobbin
 Fawley, James Linwood
 Fetterolf, George
 Filkins, Claud William Leroy
 Fisher, George Egbert
 Fisher, Wager
 Fisher, William Lewis
 Fitzmaurice, William John, Jr.
 Fitzmaurice, Edmund Joseph
 Fox, Benjamin
 Frazer, John
 Frazier, Charles Harrison
 Friend, George Clausen
 Fulweiler, Walter Herbert
 Garrett, Arthur Sellers
 Giele, Walter Scott
 Gildersleeve, Nathaniel
 Gill, Arthur Bruce
 Gilliland, Samuel Howard
 Gillinder, James
 Gilpin, Francis Hopkinson
 Glenn, Oliver Edmunds
 Goldbaum, Jacob Samuel
 Good, Paul Eckert
 Goodspeed, Arthur Willis
 Goodwin, Harold, Jr.
 Gordon, George Byron
 Graham, John Howard
 Gray, Robert Lochead
 Greenman, Milton Jay
 Groben, William Edward
 Hallett, George Hervey
 Harbeson, John Frederick
 Harkins, Melvin Reese
 Harrison, Charles Custis
 Harshberger, John William
 Hatai, Shinkishi
 Hatfield, Charles James
 Haupt, Max
 Havens, Franke Stuart

PHILADELPHIA—Continued

Hering, Carl
 Herman, J. Leon
 Herring, James
 Hexamer, Charles John
 Hildebrand, Joel Henry
 Hilts, Roy Wilson
 Hitchens, William Frank
 Holmes, Arthur
 Hotchkiss, Homer James
 Hough, Robert Harbison
 Hovenden, Thomas
 Howard, George Merriam
 Hoyt, John Ezra
 Huggins, George Augustus
 Ingram, Edward Lovering
 Jacobs, Merkel Henry
 Jordan, Thomas Barnett Lewis
 Kabakjian, Dircan Hadjy
 Kapp, David
 Karcher, Walter Thompson
 Keen, William Williams
 Keller, Harry F.
 Kirk, Edward Cameron
 Klaer, Fred Harlen
 Kneass, Samuel Stryker
 Koyl, George Simpson
 Kraemer, Henry
 Kribs, Herbert Guy
 Krumbhaar, Edward Bell
 Laib, Walter
 Laird, Warren Powers
 Lambert, Walter Davis
 Leggo, William Thomas
 Levy, Simon
 Lewis, Paul Adin
 Lillie, Ralph Stayner
 Linker, William
 Lohr, William Shannon
 Loos, Paul R.
 Lysle, Frederic Bowers
 McCarthy, Daniel Josef
 McCutcheon, Thomas Potter, Jr.
 Macfarlane, John Muirhead
 McGowin, Richard Smyth
 Mackenzie, George Pierce
 Mackinney, William Humphrey
 McKinstry, Guy Hale
 McMillan, Conway
 Marshall, John
 Maerburg, Edgar
 Martin, Edward
 Merrell, Caroline Wallace
 Meyer, Wendel John
 Middleton, William Shainline
 Mickle, Robert Thomas
 Miller, Sarah Pleis
 Milligan, Elizabeth (Bolger)
 (Mrs. Oswald Milligan)
 Mills, Charles Karsner
 Mills, Coleman Sellers
 Moore, John Percy
 Morgan, Randal
 Moyer, Jay Bird
 Müller, John Hughes
 Nichols, Edson Hoyt
 Nolan, Thomas
 Norton, John Treadwell, Jr.
 Nutt, John Budd
 Oakley, Thornton
 Osborne, Charles Francis
 O'Shaughnessy, Louis
 Outerbridge, George Whitney
 Owens, Robert Bowie
 Partridge, Edward Asa
 Patterson, Carl Van Schaick
 Patterson, James Lawson
 Pearce, Richard Mills, Jr.
 Pepper, William
 Pemberton, Ralph
 Penrose, Charles Bingham
 Piersol, George Arthur

PENNSYLVANIA—Continued

PHILADELPHIA—Continued

Piersol, George Morris
 Platt, Haviland Hull
 Plummer, George William
 Pyle, Clyde Beethoven
 Reichert, Edward Tyson
 Richards, Alfred Newton
 Richards, Horace Clark
 Rieser, Webster Luther
 Riesman, David
 Rivas, Damaso
 Robinson, Frank Crowl
 Rockwell, George Ward
 Roe, Ralph Burt
 Rogers, Frank Henkels
 Rose, William Cumming
 Rosengarten, George David
 Rosengarten, Walter Edward
 Rosin, Joseph
 Rowland, William Lee
 Rumbold, Caroline
 Safford, Frederick Hollister
 Sautter, Albert Carl
 Saxon, Gordon Joel
 Schatz, Harry Abraham
 Schlatter, Hugo
 Schramm, Adolph William
 Schwatt, Isaac Joachim
 Schweinitz, Georg Edmond de
 Scofield, Edson Mason
 Scofield, Glenn Mason
 Seal, Alfred Newlin
 Shinn, Owen Louis, Jr.
 Silverman, Jacob George
 Silverman, Max
 Simon, Fred Lester
 Singer, Edgar Arthur, Jr.
 Sinkler, Francis Wharton
 Skinner, James Mortimer
 Smith, Allen John
 Smith, Arthur Thomas
 Smith, Edgar Fahs
 Smith, George Lathrop
 Smith, Livingston
 Spangler, Henry Wilson
 Spitzka, Edward Anthony
 Spoerl, Christian George
 Stanford, J. Verne
 Stauffer, John Barr
 Stengel, Alfred
 Sternfeld, Harry
 Stradling, George Flowers
 Schweintz, George Edmund de
 Sweeney, Orland Russell
 Sweet, Joshua Edwin
 Taggart, Walter Thomas
 Taylor, Alonzo Englebert
 Taylor, William Purves
 Terry, Arthur Linville, Jr.
 Thomas, Nathaniel Willey
 Torian, Oscar Noel
 Tourison, Ashton Steven, Jr.
 Towle, Elizabeth
 Tracy, Joseph Henry
 Travis, Charles
 Troelsch, Henry William
 Turnbull, William Gray
 Tuttle, Lucius
 Twitmyer, Edwin Burket
 Urban, Frederick Maria
 Udinsky, Hyman Joseph
 Van Loon, Frank Russell
 Vogelsson, John Albert
 Wagner, Samuel Tobias
 Warwick, Charles Laurence
 Webb, Walter Loring
 Webster, George Smedley
 Weiss, John Morris
 Welker, William Henry
 Whetstone, William Berry
 Whitney, Philip Richardson
 Wildman, Edward Embree

PHILADELPHIA—Continued

Wilkinson, William MacIlhenny
 Williams, Samuel Borton
 Willis, Clarence Addison
 Willis, Louis Albert
 Winterstein, Clarence C.
 Witmer, Lightner
 Wood, Henry Dunn
 Wynkoop, Frederick
 Zieher, Edward Herman

PHOENIXVILLE

Coyle, David Cushman
 Rulon, Samuel Archer, Jr.

PITTSBURGH

Albrech, Maximilian Claude
 Alger, Jarvis Howard
 Amsler, Walter Otto
 Ashley, Harrison Everett
 Atherton, Alfred Leroy
 Atherton, Carlyle Adams
 Bacon, Raymond Foss
 Baker, Samuel Sweigart
 Barney, Jesse Edmund
 Beck, William Porter
 Bethel, Charles Hugh
 Birney, Emmet Hamilton
 Bishop, Frederic Lendall
 Boyd, William, Jr.
 Brooks, Clyde
 Brownlee, Roy H.
 Brunker, Albert Ridgely
 Carpenter, David Ellsworth
 Chandler, Sellers McKee
 Clark, Clinton Willard
 Clark, Hugh
 Comstock, George Frederick
 Connor, Isaac Baum
 Cornellius, Martin
 Crossfield, Albert Scott
 Darrah, William Austin
 Dennison, Boyd Coe
 Dyche, Howard Edward
 Easton, William Hastings
 Egly, Willard Leo
 Farnsworth, Sidney Woods
 Fay, Albert Hill
 Feicht, Bertha (Lamme)
 (Mrs. Russell Stemson Feicht)
 Feicht, Russell Stemson
 Fickes, Edwin Stanton
 Fieldner, Arno Charles
 Fleeger, Burtner
 Fleming, Thomas, Jr.
 Gemmill, Edwin Leroy
 Gibbs, Jesse Berthold
 Gray, Leslie Jackson
 Griffith, John Howell
 Guthrie, Charles Claude
 Hailman, James Dickey
 Hardin, Charles Marks
 Haythorn, Samuel Reese
 Hector, Lewis Henry
 Hendrickson, George Lansing
 Henry, Donald Allison
 Hoffman, Charles
 Hower, Harry Sloan
 Hufnagel, Frederick Bernhard
 Ireland, Harold Leader
 Jennigs, Otto Emery
 Jessel, Henry Rose
 Kahl, Paul Hugo Isador
 Keetch, Harry Livingston
 Kemble, Edwin Crawford
 Kernohan, Robert
 Kerr, Allen Meredith
 Kindl, Fred Henry
 Kingsbury, Albert
 Klein, Abraham Albert
 Knotte, John McBride
 Kohman, Henry Adolph
 Kunkel, Fred Raymond

PENNSYLVANIA—Continued

PITTSBURGH—Continued

Lamme, Benjamin G.
 Lincoln, Paul Martyn
 MacChesney, James Everingham
 McGoodwin, Henry Kerr
 Mace, Donald Howe
 Mackey, John Francis
 Merrill, Ferrand Seymour
 Mott, William Elton
 Myer, Arthur Henry
 Newbury, Frank Davis
 Ovitz, Frank Keehn
 Parmelee, Paul Ross
 Pendergrass, Robert Allen
 Phelps, Wyllys Irvin
 Randall, Karl Chandler
 Rowe, William Alphonso
 Schlatter, Hugo
 Schleiter, Howard Gustav
 Schluederberg, Carl George
 Scholes, Samuel Ray
 Schwab, Henry Arthur
 Sheldon, Ralph Edward
 Shuey, Ralph Clement
 Stimson, George William
 Storer, Norman Wilson
 Taber, Ray Howard
 Taylor, Horace Van Sands
 Taylor, Granville Lewis
 Taylor, Robert Cromwell
 Thompson, William
 Todd, John William
 Tylee, Don Orville
 Utley, Frederick Brown
 Vogt, Clarence Charles
 Vogt, Lou Helen Morgan
 (Vogt, Mrs. C. C.)
 Wadsworth, Frank Lawton Olcott
 Walton, Jesse Pusey
 Watkins, Clarence Bingham
 Wenrich, Calvin Naftzinger
 Wilson, Herbert Michael
 Wohlenberg, Walter Jacob
 Wood, Harrison Haskell
 Work, William Roth
 Wright, George Jesse
 Zahnleiter, Albert William
 Zeller, Carl Abell

POTTSTOWN

Evans, Charles Tyndall
 Jones, Jonathan
 Smith, Stanley
 Wilds, Joseph Smith, Jr.

POTTSVILLE

Powers, Frank Ethelwulf
 Wright, Reginald Ashmun

READING

Bertolet, William Shaeffer
 Gerhard, Charles Herbert
 Gerhard, James Rieser
 Illmer, Louis
 May, Albert John
 Rhode, Homer Jonas

RIDGEWAY

Balderston, Lloyd
 Bell, Cliff Roland
 Hall, Thomas
 Thompson, Milton Ellsworth

ROSEMONT

Vanclain, Samuel Matthews

ST. DAVIDS

Tomlinson, Howard Eagle

ST. MARYS

Sohn, Erwin

SAYRE

Bishop, Howard Elmer

SCRANTON

Belin, Paul Beck

SCRANTON—Continued

Falkowsky, Charles, Jr.
 Kiesel, Ernest Louis Alexander
 Martin, John Lowrey
 Sanford, Edwin William

SHARON

Kranz, William George
 Marquardt, William Benjamin

SOUTH BETHLEHEM

Babasinian, Vahan Simon
 Beattie, Frederick Steere
 Colby, Albert Ladd
 Cressy, Charles Royal
 Dolt, Maurice Lois
 Franklin, William Suddards
 Hall, Robert William
 Howarth, Harry Arthur Stevens
 Miller, Benjamin Leroy
 Wherry, Edgar Theodore

STATE COLLEGE

Brown, Thomas Clachar
 Bartholomew, Harold Criswell
 Myers, Charles Emory
 Clevenger, Joseph Franklin
 Cochel, Wilbur Andrew
 Crane, Walter Richard
 Diemer, Hugo
 Eddy, Milton Walker
 Fulton, Harry Roscoe
 Ham, William Ross
 Hill, John Benjamin
 Hunt, Thomas Forsyth
 Linville, Clarence Philander
 Moore, Elwood S.
 Myers, Charles Emory
 Noll, Charles Franklin
 Smith, Edwin Raymond
 Steeker, Henry Freeman
 Stewart, John Pogue
 Stoddart, Charles William
 Walker, Elton David

STEELTON

Asseln, Emil
 Hilpert, Meier George

SWARTHMORE

Barton, Samuel Goodwin
 Blessing, George Frederick
 Gay, Catherine Emily (Andrews)
 (Gay, Mrs. C. W.)
 Lewis, George William
 Marriott, Walter Ross
 Miller, John Anthony
 Trotter, Spencer
 Ward, Hiram Lee

SYLVANIA

Card, Fred Wallace

TARENTUM

Magee, Louis Austin

WALLINGFORD

Baker, John Alexander

WASHINGTON

Winchester, George

WAYNE

O'Neal, Alexander Hay

WELLSBORO

Harrison, George Albert

WERNERSVILLE

Tonneler, John Edmund

WEST CHESTER

Evans, Henry Sebastian

WESTGROVE

Jones, Lloyd Balderston

WILKINSBURG

Flanders, Warren Beebe
 Hornung, Frank Walter
 Shear, Verne Warren

PENNSYLVANIA—Continued

WILKES-BARRE

McClintock, Andrew Todd

WILMERDING

Dudley, Samuel William

RHODE ISLAND

GREENE

Perry, Charles Manchester

KINGSTON

Hadley, Philip Bardwell

Hartwell, Burt Laws

Webster, Samuel Harvey

NEWPORT

Howe, Ernest

Irvine, William Lorne

PAWTUCKET

Clapp, Samuel Hopkins

Davison, Herbert Franklin

PROVIDENCE

Abramson, Harry Louis

Appleton, John Howard

Bailey, William Whitman

Barus, Carl

Brooks, J. Ansel

Brown, Charles Wilson

Browne, William Ward

Bucher, John Emery

Burton, Ada Irene

Cady, William Hamlin

Calder, Edwin Eddy

Caswell, Robert Gamble

Chace, Arnold Buffum

Chambers, Robert Foster

Chapin, Charles Value

Collier, Janet (Sheldon)
(Collier, Mrs. Theodore Freling-
huysen)

Collins, James Franklin

Cooke, Charles Osmond

Currier, Clinton Harvey

Dale, Nelson Clark

Davis, Nathaniel French

Delabarre, Edmund Burke

DeWitt, Stewart Lloyd

Edmundson, Harold Bowen

Elliot, Huger

Farwell, Albert Potter

Ferrey, Fred Gilbert

Field, Robert Franklin

Flagg, Arthur Leonard

PROVIDENCE—Continued

Fulton, Frank Taylor

Gorham, Frederick Poole

Hall, James Alexander

Hill, John Edward

Holt, Norman Edward

Hutchins, Roland Ellis

Huxford, George Thomas

Johnson, Frank Elmer

Kelly, John Vincent

Kenerson, William Herbert

Lasker, Julius

Loepsinger, Albert John

Madison, Harold Lester

Manning, Henry Parker

Mead, Albert Davis

Mead, Ada Geneva (Wing)

(Mead, Mrs. Albert Davis)

Melklejohn, Alexander

Miller, Harold Edmund

Mitchell, Philip Henry

Palmer, Albert de Forest

Patterson, Irving Wooster

Perkins, Jay

Phetteplace, Thurston Mason

Purdie, David James

Rackie, Oscar William

Randall, Otis Everett

Richardson, Roland George Dwight

Ross, William Nisbet

Smith, George Hawthorne

Smith, Walter Edward

Taylor, Frank Carter

Upton, Winslow

Walter, Herbert Eugene

Watson, Arthur Eugene

Watt, Martha Wilbur

Wilcox, Alice Wilson

Winslow, Arthur Melvin

York, Harlan Harvey

WICKFORD

Barnes, Ernest Warren

WARWICK

Suffa, Mary Clegg

SOUTH CAROLINA

CHARLESTON

Rockwell, James Vincent

CLEMSON

Barre, Henry Walter

CLEMSON COLLEGE

Gee, Wilson Parham

COLLETON

Frank, John Nickalas

SOCIETY HILLS

Blair, Frank Joseph, Jr.

SPARTANBURG

Kreisinger, Henry

SOUTH DAKOTA

ABERDEEN

Poore, Charles Delos

Walter, Frederick Joseph

BROOKINGS

Brackett, Byron Briggs

Cook, Robertson

Corbin, Charles Edgar

Hume, Albert Nash

Miller, Shirley Putnam

Olive, Edgar William

Severin, Harry Charles

Wagner, Adolph W.

LEAD

Herz, Nathaniel

Sharwood, William John

MITCHELL

Sherwood, Edward James

Wheeler, William Archie

RAPID CITY

Coolbaugh, Melville Fuller

REDFIELD

Norris, John Hiram

SIOUX FALLS

Wilson, Josie

SUMMIT

Lindberg, Arvid C.

TROJAN

Hiltner, Martin Edward

SOUTH DAKOTA—Continued

VERMILION
Pell, Anna, (Johnson)
(Pell, Mrs. Alexander)

WATERTOWN
Hatz, Earl Washington

WEBSTER
Ebert, Michael Higgins

YANKTON
Leibee, Hugh Case

TENNESSEE

CHILHOWEE
Ramser, Charles Ernest

CONCORD
Phillips, Adams

COPPER HILL
Case, Albert Hermon

DECHERD
Hines, Bedford Forrest

KNOXVILLE
Bentley, Gordon Mansir
Buchanan, Herbert Earle
Cotton, Edwin Charles
Gordon, Charles Henry

KNOXVILLE—Continued
Jarvis, Royal Preston
Jones, Forrest Robert
Ogden, Robert Morris

MEMPHIS
Backes, Walter Peter
Houk, Ivan Edgar
Williams, Wilbur S.

NASHVILLE
Ainslie, George Gooding
Balcom, Reuben Wilfred
Hight, Jonas Ewing
Franke, Edward J.
Washburn, Frank Sherman

TEXAS

AUSTIN
Bantel, Edward Christian Henry
Brown, Newton Henry

Casteel, Dana Brackenridge
Dodd, Edward Lewis

Gracey, George Fay
Heald, Frederick DeForest

Kuehne, John Matthias
Lewis, Isaac McKinney
Patterson, John Thomas
Porter, Milton Brockett
Simonds, Frederick William
Yoakum, Clarence Stone

COLLEGE STATION
Blake, John Charles
Francis, Mark
Smith, Harry Ezra

DALLAS
De Hart, Otto Dell
Hess, Frederick Edward
McGregor, Ernest Alexander
Maryott, Carlton Howard
Noyes, Edward Newton
Pierce, William Dwight

EI PASO
Kohlberg, Herbert S.

FORT WORTH
Zane-Cetti Carolus Hermann

HONDO
Shaw, William Francis

HOUSTON
Baldwin, John Mayhew
Higginbotham, Blanche
Jacobs, Julius Lilien

KINGSVILLE
Miles, Martin Emmet
Miles, Amy Bell
(Miles, Mrs. Martin Emmet)

LA PRYOR
Van Berg, Ora Elmer

RAYMONDVILLE
Newhall, William Barrett

TEMPLE
Schenck, Charles Plume

UTAH

BEAVER
Haddaway, Thomas Sherwood

EUREKA
Griggs, Charles Clifton
Squire, Everett Adams

GUNNISON
Roush, Leroy Walter

LOGAN
Ball, Elmer Darwin
Harris, Franklin Stewart
Jensen, Christian Nepht
Stewart, Robert
West, Franklin Lorenzo

ODERVILLE
Carroll, William Ernest

OGDEN
Henderson, William Williams

PARK CITY
Blood, George Deroy

PROVO
Blood, George Deroy
Davoud, Vahram Edward
Homer, Philena Fletcher
(Homer, Mrs. William Harrison)
Jarvis, Clarence Sylvester
McAllister, Daniel Handley
McMinn, Walter James
Merrill, Ambrose Fond
Wright, Albert Eugene

SALT LAKE CITY
Beckstrand, Elias Hyrum
Beyer, Theodore Alexander
Bradley, Henry Franklin
Brown, Robert King, Jr.
Chamberlin, Ralph Vary
Ebaugh, William Clarence
Eager, Katharine Louise
Filer, Walter George
Hanauer, Monroe
Hovey, Ray Palmer
Kelly, Walter Lockwood
Kirtley, Luther Lycurgus
Knowlton, Ansel Alphonso
Kremers, Clarence Henry
Lyman, Richard Roswell
Mattill, Henry Albright
Pack, Frederick James
Peterson, Joseph
Reeves, Miriam Ursula (Welles)
(Reeves, Mrs. G. J.)
Schulte, Walter Gustav Adolph
Snow, Clarence
Sundwall, John
Thiessen, Alfred Henry
Twiss, Wilfred Charles
Tyree, Joseph Edgar
Vorhies, Charles T.

TOOELE
Kuchs, Oscar M.

VIRGINIA

ASHLAND
Mallory, William Garfield

BLACKSBURG
Barlow, William Edward
Reed, Howard Sprague

BLUEMONT
Blair, William Richards

CHARLOTTESVILLE
Bird, Robert Montgomery
Edgar Graham
Watson, Thomas Leonard

HAMPTON
Sniffen, Ernest William

KEOKEE, LEE CO.
Judd, Harry Edson

LYNCHBURG
Douglas, Gertrude Elisabeth

NEWPORT NEWS
Norton, Harold Frederick

NORFOLK
Chambers, Frank Taylor
Cole, Pleasant Theodore

NORTH HOLSTON
Wilder, Frank Alonzo

PORTSMOUTH
Burrell, Glenn Smith
Noyes, Ellis Bradford
Rice, Ray Howard

RICHMOND
Hoadley, Edward Mills
La Roque, George Paul

STUARTS DRAFT
Cline, Justus Henry

SWEET BRIAR
Howland, Ruth B.

WILLIAMSBURG
Harvey, Edward Maris

WINCHESTER
Hart, William Edward

VERMONT

BENSON
Washburne, Robert Hoosick

BURLINGTON
Bennett, Charles Barrows
Burns, George Plumer
Chamberlain, Frank Wilbut
Cummings, Marshall Baxter
Stetson, John Minor
Upson, Walter Lyman

ENOSBURG FALLS
Best, Everett J.

RUTLAND
Stevens, Franklin Rand

SOUTH STARCKSBORO
Birdsall, Joseph Cooper

WESTMINSTER STATION
Parkhurst, Harleigh

WASHINGTON

BELLINGHAM
Phillipi, Henry Clair

BREMERTON
Foster, Richard
Squire, Harry Edwin

BURLINGTON
Clark, Lois

CENTRALIA
Scace, Lee Arbor

CHENEY
Hungate, Joseph Wynne

COLFAX
Johnson, Arthur Monrad
St. Sure, Frank A.

DU PONT
Gladding, Ernest Knight

ELLENSBURG
Pope, Arthur Baker Stanley

EVERETT
Fee, Louis Henry

FORT CASEY
Sargent, Erle Hoxsie

GRANDVIEW
Thompson, Harriet E. (Dunton)
(Thompson, Mrs. N. H.)

IRONDALE
Merzbacher, Aaron

METALINE
Dehuff, Arthur Isadore

MILES CITY
Burger, Ellen Adella (Lamoreaux)
(Burger, Mrs. J. Archie)

NORTH YAKIMA
Hasbrouck, Philip Bevier
Lane, John Edward
Keeler, Sybil May (Wheeler)
(Keeler, Mrs. Charles Edgar)
Loudon, John Parker

OMAK
Keller, Frank H.

OLYMPIA
Lovejoy, Parish Storrs
Lovejoy, Ruth Harrison
(Lovejoy, Mrs. Parish Storrs)

PULLMAN
Akers, Milton Kent
Beattie, Rolla Kent
Fulmer, Elton
Humphrey, Harry Baker
Melander, Axel Leonard
Millington, Howard Guy
Shedd, Solon
Thatcher, Roscoe Wilfred
White, Paul J.

PUYALLUP
Lawrence, William Hurford

ROSLYN
Flaherty, Guy

SEATTLE
Allen, Louise Marie
Beaulieu, Richard Laurence
Beckett, Berge Barrie
Beecher, Henry Ward
Benson, Henry Kreitzer
Bowlby, Henry Lee
Brakel, Henry Louis
Brandel, Irvin Walter
Buol, Edward Martin
Burkheimer, Ira Arthur
Bushnell, Horace Leland
Byers, Horace Greeley
Clise, Charles Francis
Corbet, Darrah
Crawford, Magnus Tate
Dehn, William Maurice
Denny, Edward Harold
Dewey, Albert Haskin
Eastwood, Everett Owen
Engstrom, Roy Victor

WASHINGTON—Continued

SEATTLE—Continued

Frye, Theodore Christian
 Fuller, Almon Homer
 Gibbons, Charles Bayard
 Gould, James Edward
 Grondahl, Lars Olaf
 Harris, Charles William
 Hemmingway, Ernest Eugene
 Hopkins, Raymond Allen
 Howard, Arthur Day
 Hunt, John Wilson
 Isham, Alonzo Keyt
 Johnson, Charles Willis
 Johnson, Frank Edward
 Kahan, Sarah Edna
 Karrer, Enoch
 Karrer, Sebastian
 Kincaid, Trevor
 Kurt, Friedrich Johannes Kirsten
 Landes, Henry
 MacLachlan, Margaret Mae
 McCaustland, Elmer James
 Magnusson, Carl Edward
 Mallory, Charles Earl
 Maxson, Louis Herbert
 Miller, Alvin Augustus
 Miller, Frank Garner
 More, Charles Church
 Moritz, Robert Edouard
 Morrison, Frank Marion
 Morrison, Bessie Eleanor Crowe
 (Morrison, Mrs. Frank Marion)
 Neikirk, Lewis Irving
 Osborn, Frederick Arthur
 Phipps, Thomas Elmer
 Provine, Loring Harvey
 Quense, John Henry
 Roberts, Milnor
 Rose, Robert Evstafeff
 Shamel, Charles Harmonas

SEATTLE—Continued

Small, Lloyd Leroy
 Smith, Eli Victor
 Stevens, Herman Campbell
 Stranberg, George Robert
 Wagner, Walter Calvin
 Weaver, Charles Edwin
 Weber, Ervin L.
 Weinzirl, John
 West, Judson Ray
 Wilson, George Samuel
 Winkenwerder, Hugo
 Zimmerman, Louis Peter

SPOKANE

Dodds, Fabian Bouton
 Foster, Ebert Arnold
 Kjosness, Ingram Gerhard
 Linney, William Henry
 McDougal, Talne Gilbert

SUMNER

Shannon, William Day

TACOMA

Breedlove, John Cromwell
 Ellis, Walter Crosby
 Green, Heriwyn Ruggles
 Kastner, Jessie Jane (Bullock)
 (Kastner, Mrs. Herebert)
 Lewis, Burt A.
 Rathbun, John Charles
 Rowell, Philip Jones
 Wheeler, Harold Sayre

VANCOUVER

Gearheart, Olive Merrill (Chase)
 (Gearheart, Mrs. George W.)

WASHTUCUA

Bogue, Nathan Herschel

WENATCHEE

Holland, Jay Clark

WEST VIRGINIA

CHARLESTON

Demmler, Paul Edward

FAIRMOUNT

Bonnett, Edwin Spilman

GLEN FERRIS

Koch, Alfred Richard

GLENOVA

Bedell, Carl Ensley

MARTINSBURG

Grimsley, George Perry

MORGANTOWN

Jones, Clement Ross
 Kortright, Frederick Lawrence
 Munson, Welton Marks
 Reese, Albert Moore
 Sanderson, Ezra Dwight

MORGANTOWN—Continued

Sheldon, John Lewis
 Waggoner, Chauncy William

NORFOLK

Stamford, Albert

PARKERSBURG

Carl, Samuel Peaslee

SHEPARDSTOWN

Schedler, Carl William

ST. ALBANS

Stark, Medary Wilson

WERTON, HANCOCK CO.

Collins, John Edward

WHEELING

Speidel, Jesse Wheat

WISCONSIN

APPLETON

Bagg, Rufus Mather

BARKSDALE

Lawley, Walter Fred

BELOIT

Culver, Charles Aaron
 Densmore, Hiram Delos
 McLeod, Andrew Friedley
 Waugh, Karl Tinsley
 Yost, Lloyd

BERLIN

Walker, Emory Lafayette

ELSWORTH

Oyen, Martin

MADISON

Allen, Bennett Mills
 Allen, Charles Elmer
 Aston, James
 Baker, Ray Luzerne
 Bardeen, Charles Russell
 Barnebey, Oscar Leonard
 Baumgartner, Edwin Abraham
 Beebe, Murray Charles
 Bennett, Edward
 Birge, Edward Asahel
 Birge, Raymond Thayer
 Blackwelder, Eliot
 Bradley, Harold Cornelius
 Bristol, Howard Stanley
 Bumpus, Hermon Carey
 Bunting, Charles Henry

WISCONSIN—Continued

MADISON—Continued

Burgess, Charles Frederick
 Burgess, Horace Thomas
 Burnett, Earl Smead
 Burns, Josephine Elizabeth
 Butler, Ormond Bourke
 Carleton, Paul Whittier
 Christle, Alexander Graham
 Cline, Mcgarvey
 Cole, Leon Jacob
 Comstock, George Cary
 Conrey, Guy
 Corp, Charles Ives
 Currie, James Nimrod
 Dahm, Thomas Matthew
 Daniels, William Willard
 Davis, George Jacob, Jr.
 Davis, John Jefferson
 Deming, Horace Grove
 Denniston, Rollin Henry
 Dietrichson, Gerhard
 Disque, Robert Conrad
 Doolittle, Frederick William
 Dowling, Linnaeus Wayland
 Dresden, Arnold
 Ellingson, Emil Oscar
 Eyster, John Augustine English
 Faber, Daniel Cleveland
 Farrington, Edward Holyoke
 Finch, Vernon Clifford
 Fischer, Richard
 Flint, Albert Stowell
 Forsythe, William Elmer
 Frost, William Dodge
 Fulcher, Gordon Scott
 Fuller, Caleb Allen
 Gage, Otis Amsden
 Gilbert, Edward Martinus
 Gray, Frank
 Griffith, Edward Merriam
 Guyer, Michael Frederick
 Hambuechen, Carl
 Hart, Edwin Bret
 Hastings, Edwin George
 Havard, Francis Thompson
 Hawley, Lee Fred
 Henmon, Vivian Allen Charles
 Henry, William Arnon
 Hill, Charles Warren
 Hoffman, Conrad
 Holden, Edwin Chapin
 Holmes, Samuel Jackson
 Hotchkiss, William Otis
 Humphrey, Clarence John
 Ingersoll, Leonard Rose
 Jansky, Cyril Methodius
 Jastrow, Joseph
 Jones, Lewis Ralph
 Juday, Chancey
 Kahlenberg, Louis
 Kempfer, William Herbert
 Kinne, William Spauling
 Klein, David
 Koenig, Alfred Edward
 Kowalke, Otto Louis
 Krauskopf, Francis Craig
 Kremers, Edward
 Kressman, Frederick William
 Kundert, Alfred Emil
 Lawrence, James Nelson
 Lee, Carl Emil
 Leith, Charles Kenneth
 Lenher, Victor
 Loevenhart, Arthur Solomon
 Ludy, Llewellyn V.
 Mack, John Glvan Davis
 Mann, Charles August
 March, Herman William
 Marshall, William Stanley
 Martin, Lawrence
 Mason, Max

MADISON—Continued

Mathews, Joseph Howard
 Maurer, Edward Rose
 McBride, Russell Smith
 McCauley, George Vest
 McCollister, Marcus Sanders
 McCollum, Elmer Verner
 Mead, Daniel Webster
 Mead, Warren Judson
 Meek, Walter Joseph
 Melhus, Irving E.
 Mendenhall, Charles Elwood
 Miller, Eric Rexford
 Miller, William Snow
 Musback, Fred Ludwig
 Nebel, Walter
 Nyberg, Joseph Antonius
 Overton, James Bertram
 Packard, Horace Nelson
 Palmer, Robert Conrad
 Pence, William David
 Peterson, Peter Powell
 Phillips, James David
 Price, John Reese
 Ravenel, Mazyck Porcher
 Reber, Louis Ehrhart
 Richter, Arthur William
 Roark, Ruric Charles
 Roebuck, John Ransom
 Russell, Harry Luman
 Sanders, James Glosbrenner
 Sanford, Herbert Brooks
 Sandsten, Emil Peter
 Skinner, Ernest Brown
 Slichter, Charles Sumner
 Smith, Leonard Sewall
 Snow, Benjamin Warner
 Starch, Daniel
 Steenbock, Harry
 Steldtmann, Edward
 Stewart, Alban
 Surface, Henry Earl
 Tatum, Arthur Lawrie
 Terry, Earle Melvin
 Thelen, Rolf
 Thorkelson, Halsten Joseph Ber-
 ford
 Thomas, Carl Clapp
 Thwates, Frederick Turville
 Trueman, Joseph Douglass
 Tully, Edward Joseph
 Turneure, Frederick Eugene
 Turner, Ebenezer Tousey
 Van Hise, Charles Richard
 Van Vleck, Edward Burr
 Vosskuehler, Joseph Henry
 Wagner, George
 Walton, James Henri
 Walster, Harlow Leslie
 Watson, James Webster
 Watts, Oliver Patterson
 Weidman, Samuel
 Weiss, Howard Frederick
 Whitbeck, Ray Hughes
 White, Earl Archibald
 Whitson, Andrew Robinson
 Wilcox, Wendell Garrett
 Winchell, Alexander Newton
 Withey, Morton Owen Withey
 Wolff, Henry Charles
 Woll, Fritz Wilhelm
 Zobel, Otto Julius

MANITOWOC

Richter, Arthur William
 Wallace, William Lewis, Jr.

MENOMONEE

Egdahl, Anfin,

MILWAUKEE

Balzer, George John
 Barrett, Samuel Alfred

WISCONSIN—Continued

MILWAUKEE—Continued

Burrill, Paul Colburn
 Candee, Allan Harry
 Child, Alice May
 Clark, William Otterbein
 Collins, Willis
 Foote, Edward Thaddeus
 Hall, Allan Everett
 Harmon, Lucie
 Harsh, Earl Clarence
 McKinnon, William Rennie
 McMaster, Robert Keith
 Nicht, Alexander Joseph, Jr.
 Rose, Jennie M. (Speer)
 Sanford, Arthur Hawley
 Scherner, John
 Shorey, Marian Lydia
 Smith, Kenneth Gardner
 Sperry, Leonard Boyd
 Stevens, William Thomas
 Thorpe, Joel Rex
 Torelle, Ellen
 Twining, Granville Howard
 Wagner, Richard George
 Welborn, Edgar Calvert
 Williamson, Robert Baird
 Wilson, John Crosier

MINERAL POINT

Kelsey, Weston Maynard

NASHOTAH

Easton, Burton Scott

OSHKOSH

Ferguson, Frank Alexander

PHILLIPS

Guthier, Cora

RACINE

Standish, Sherwood Hubbard

REEDSBURG

Quimby, Catherine (Hillesheim)
 (Quimby, Mrs. H. B.)

SHELL LAKE

Lewis, Charles L., Jr.

SUPERIOR

Goddard, Henry Newell
 Squire, Carrie Ranson
 (Squire, Mrs. William Nelson)

WEST ALLIS

Einig, Alvin Bart

WILLIAMS BAY

Barnard, Edward Emerson
 Frost, Edwin Brant
 Slocum, Frederick

WYOMING

CHEYENNE

Baker, LeRoy Nelson
 Prosser, Dean Truxell

CODY

Sheidler, Paul King

HUDSON

Wescott, Frank Howard

LARAMIE

Boyle, Albert Clarence, Jr.
 Downey, June Etta

LARAMIE—Continued

Heyl, Frederick William
 Knight, Henry Granger
 McGee, John Merritt
 Stromquist, Carl Eben
 Swingle, Leroy Dey

FORT D. A. RUSSELL

Park, Charles Abraham

YELLOWSTONE PARK

Lindelee, Charles Gustav

ALASKA

DOUGLAS

Kinzie, Robert Allen

HOLLIS

Grant, R. C.

JUNEAU

Thane, Bartlett Leo
 Wollenberg, Harry Lincoln

LA TOUCHE

Dunkle, Wesley Earl

SKAGUAY

Sweet, Anna Edith Corey
 (Sweet, Mrs. Lester)

CANAL ZONE

CULEBRA

Fraser, Guy Owen
 Grauten, Sylvester Henry
 Larzelere, Charles Benham
 Rousseau, Harry Harwood

ANCON

Zetek, James

GATUN

Morris, Thomas Carlyle

PANAMA

Brown Arthur Robert

HAWAII

HONOLULU

Cooke, Charles Montague, Jr.
 Forbes, Charles Noyes
 Fulloway, David Timmons
 Gilmore, John Washington
 Judd, Charles Sheldon
 Lyon, Harold Lloyd
 Lyon, Maud (Fletcher)
 (Lyon, Mrs. Harold Lloyd)

HONOLULU—Continued

Norris, Robert Stewart
 Severin, Henry Herman Paul
 Swezey, Otto Herman
 Young, John Mason

KEALAKEKUA

Smith, Jared Gage

PHILIPPINE ISLANDS

LOS BAÑOS

Copeland, Edwin Bingham

MANILA

Adams, George Irving
 Beyer, Forrest E.
 Brooks, Benjamin Talbot
 Brown, Roy Alton
 Clark, Elbert
 Collins, Ray Arthur
 Cox, Alvin Joseph
 Cutler, Stanley Gardner
 Foxworthy, Fred William
 Gibbs, Harry Drake
 Gomez, Liborio
 Griffin, Lawrence Edmonds
 Kendall, Charles Hanford
 Lhamon, Ruskin
 McConoughy, David Charles

MANILA—Continued

McGregor, Richard Crittenden
 Matthews, Donald Maxwell
 Pratt, David Shepard
 Puckett, Roswell Clair
 Richmond, George Fletcher
 Robinson, Charles Budd
 Robinson, Kendall Edward
 Rosario, José I. del
 Schulte, Gerd Haven
 Shaw, Walter Robert
 Smith, Warren DuPre
 Stroebe, George Gottlieb
 Veilla, Timoteo Dar Juan y
 Wade, Clarence West
 Ward, Archibald Robinson
 Whitford, Harry Nichols
 Wrentmore, Clarence George
 Wright, James Remus

PORTO RICO

AGUADILLA

Torregrosa, Arturo

ARECIBO

Casellas, Ramon Ramos

MAYAGUEZ

Fawcett, George Lorenzo

SAN JUAN

Fassig, Oliver Lanard
 Hildreth, Edward Raymond

CANADA

ANNAPOLIS ROYAL, N. S.

Magee, William Henry

BRANTFORD, ONT.

Burke, Charles Eldrid

BRITANNIA BEACH, B. C.

Mitchell, Clark Godell

CALGARY, ALBERTA

Schutt, Herbert Davis
 Wall, George Albert

DAUPHIN, MANITOBA

Dickson, James Robert

EDMONTON, ALBERTA

Revell, Daniel Graisbury

FILLMORE, SASK.

Allison, Fred Gray

FREDERICTON, N. B.

McGinnis, Claude Stonecliffe

GRAND MERE, ONT.

Sabbaton, Frederick Augustus

GREENWOOD, B. C.

Keffer, Frederick

GUELPH, ONT.

Howitt, John Eaton

HALIFAX, N. S.

Adams, Arthur
 Bronson, Howard Logan
 Macneill, Murray

KINGSTON, ONTARIO

Buchanan, Daniel
 Dickson, Charles William
 Gordon, George Huntly
 Hyde, Jesse Earl

MONTREAL

Bancroft, Joseph Austen
 Cartmel, William Bell
 Danziger, Joseph Louis
 Hawksworth, David West
 Klein, John Edward
 Kriebie, Vernon Kriebie
 McCormick, Bradley Thomas
 Murray, Daniel Alexander
 Porter, John Bonsall
 Riley, Harold James
 Wright, Bertram Joseph

MOOSE JAW, SASKATCHEWAN

Austin, Clarence Elliott

NEW WESTMINSTER, B. C.

Ferebee, Alan McPherson

OTTAWA

Collins, William Henry
 Drysdale, Charles Wales
 Foster, Henry Hubbard
 Harvie, Robert, Jr.
 Keele, Joseph
 Reinecke, Leopold
 Swaine, James Malcomb
 Young, George Albert

PORT COLBORNE, ONT.

Kepner, Ben Hur

REGINA, SASK.

Wenger, Edgar I.

SAULT STE. MARIE, ONT.

Millsbaugh, Martin Lawrence

STE. ANNE DE BELLEVUE,

QUEBEC

Lynde, Carleton John

ST. CATHARINES, ONT.

Heitmann, Edward

STRATHCONA, ALBERTA

Sheldon, Ernest Wilson

TORONTO

Adams, Erwin Avery
 Darby, Clarence Raymond
 Fernow, Bernhard Eduard
 Howe, Clifton Durant
 Isham, Robert Melyne
 Knight, Cyril Workman
 Lightner, George W. Cass
 McMurrich, James Playfair
 Sims, Ernest McPherson
 Triggerson, Charles John
 Wurster, Oscar Herman

TRURO, N. S.

Linton, Orlando Hayward

VANCOUVER, B. C.

Clark, Judson Freeman
 Davidson, James Grant
 Fletcher, Arthur Banskford

VICTORIA HARBOR

Carter, Edward Fairbank

CANADA—Continued

WALKERVILLE, ONT.
Colby, Archie Lyman
Zabriskie, Charles Christian

WINDSOR, ONT.
James, Carl

WESTMOUNT, QUE.
Ballantyne, Norman Frank

WINNIPEG
Allen, Frank
Wilson, Norman Richard

MEXICO

AVINO
Mead, Harry Levi

CAMPAS, SONORA
Wilson, Philip Danforth

CANANEA, SONORA
Hardy, Norman Gladding
Ruth, Abraham John

EMPALME, SONORA
Weaver, Clarence Eugene

IZANAH, YUCATAN
Gaumer, George F.

LAS ESPERANZAS COAH
Zeller, Howard Patterson

MATEHUALA, S. L. P.
Prescott, Basil

MEXICO CITY
Baum, Isaac M.
Davis, John R.
Judson, Walter Raymond
Mishler, Ralph Thomas

MONTEREY
Bolles, Myrick Nathaniel
Gonzalez, Arturo V.

PACHUCA, HIDALGO
Van Law, Carlos Whitney

PUEBLO
Kyser, Kathryn Belle

ROSINI, SINALOA
Beals, Roger Lee

SONORA
Jackson, Charles Freeman

TEMASCALLEPEC, EST.
Kellogg, Lee Olds

TORREON
Rose, Rial Catlin

TRIUNFO, BAJA CAL.
Nahl, Arthur Charles

VERA CRUZ
Hobert, Mary (McClure)

CENTRAL AMERICA AND WEST INDIES

CARRÉNO, CUBA
Carréno, Alejo Augustin

CAMOQUEY, CUBA
Burke, William Edmund
Ricarda, Leandro Jose

HAVANA, CUBA
Claret, Francisco Pujals Y
Haggard, Homer Huston

LA PAZ, HONDURAS
Lednicky, Victor Elmer

MATAGALPA, NICARAGUA
Nobs, Frederick William

SAGUA LA GRANDE, CUBA
Brown, Grover Charles

SANTIAGO DE CUBA, CUBA
Chibas, Eduardo Justo

SAN PEDRO, ISLE OF PINES, W. I.
Mead, Charles Searing

SOUTH AMERICA

BUENOS AIRES, ARGENTINA
Jones, Wellington Downing
McKittrick, Frederic James Alex-
ander
Pemberton, John Rothwell
Smith, Pemberton
Washburne, Chester Wesley

CORDÓBA, ARGENTINA
Albrecht, Sebastian

SAN LUIS, ARGENTINA
Quiroga, Modesta
Sanford, Roscoe Frank

LA PAZ, BOLIVIA
Miller, Hiram

ORURO, BOLIVIA
Newsom, John Flesher
Taggart, Arthur Fay

RIO JANEIRO, BRAZIL
Crandall, Roderic
Derby, Orville Adelbert

RIO JANEIRO, BRAZIL—Continued
Waring, Gerald Ashley
Williams, Horace Elbert

SAO PAULO, BRAZIL
Rankin, Robert

COLLAHUASI, CHILE
Mayreis, Louis John

BOGOTA, COLOMBIA
Nieto, Julio Garzon
Reyes, Octavio Mario

MEDELLIN, COLOMBIA
Posada, Juan de la Cruz

CASAPALCO, PERU
Ross, Herbert William

LIMA, PERU
Bües, Christian Rudolf August
Marsters, Vernon Freeman

MONTEVIDEO, URUGUAY
Lee, Montrose Lucius
Salmon, Daniel Elmer

EUROPE

VIENNA, AUSTRIA
Böhler, Richard Frederick
Kann, Leopold

LIVERPOOL, ENGLAND
Higgins, Eric Berkeley

LONDON, ENGLAND
Cushny, Arthur Robertson
Gates, Reginald Ruggles
Hay, Henry
Hoover, Herbert Clark
Hoover, Lou (Henry)

EUROPE—Continued

LONDON, ENGLAND—Continued

Means, John Harrison
Wang, Chung Yu
Webb, Harry Howard

EBBW VALE, MANCHESTER, ENGLAND

Davies, John Percival

OXFORD, ENGLAND

Taber, Howard Alfred

WALES, ENGLAND

Evans, Tringad Knight

PARIS, FRANCE

Duane, William
Rehfuss, Martin Emil

BERLIN, GERMANY

Giacomini, Frank Anthony
Hsia, Yuen-li
Ostwald, Karl Wolfgang
Reinke, Arthur Eduard
Tool, Arthur Quincy
Williams, Robert Neil

FREIBURG, GERMANY

Bolza, Oskar

MUNICH, GERMANY

Augsburger, Louis Fred
Bissell, Leslie Dayton
Gregory, Elisha Hall
Janney, Nelson Wilson

BUCHAREST, ROUMANIA

Murgoci, George Munteami

KISHINEV, RUSSIA

Michael, Louis Guy

PETROVSKY, KHARCOV, RUSSIA

Soukatschoff, Platon Vladimir

EDINBURGH, SCOTLAND

Lawson, Anstruther Abercrombie

MADRID, SPAIN

Fisher, Mary Jones

FINSPOG, SWEDEN

Beckman, Fredrik Ferdinand
Woods

GENEVA, SWITZERLAND

Germann, Albert Frederick Ottmar

CONSTANTINOPLE, TURKEY

Burns, Eleanor Irene

ASIA MINOR

BUSRAH, TURKISH ARABIA

Bennett, Anna Christine (Iverson)

SMYRNA

Fontrier, Mico Miltiades Achilles

ASIA

CANTON, CHINA

Hu, Tung Chao
Ow, Ching Ko
Tong, Yau Hang
Wen, Ching Yu

CHANGSHA, CHINA

Hume, Edward Hicks
Yen, Foh-Chung

FOOCHOW, CHINA

Black, Edward Freyling

KOSHING, CHEKIANG, CHINA

Chang, Tatsung

MUKDEN, MANCHURIA

Parker, Edward

NANKING, CHINA

Evans, Philip Saffery, Jr.

PEKING, CHINA

Eckstein, Oskar
Hall, Francis Jenks
Whitmore, Ralph Delano
Wold, Peter Irving

SHANGHAI, CHINA

Patten, William Edgar
Fullerton, Ellen Clark

TIENTSIN, CHINA

Bateman, William George

TSINAN, SHANTUNG, CHINA

Schultz, William Magill

WEIHSIEN, SHANTUNG, CHINA

Chandler, Horace Edward

WEIHSIEN, CHINA

Chandler, Horace Edward

YCHOW, CHINA

Moran, Edward Eugene

CALCUTTA, INDIA

Sil, Surendra Nath

RAWAL PINDI, INDIA

Stewart, Ralph Randles

KITAYAMASAKI, IYO, JAPAN

Saiki, Tadasu

KUMAMOTO, JAPAN

Nambu, Tsunejiro

KURUME, JAPAN

Sakac, Yasudiro

KYOTO, JAPAN

Matsumoto, Matataro
Nakaseko, Rokuro

NAMAZU SHIZUOKA-KEN, JAPAN

Hayashi, Kiyonori

OKAYAMA, JAPAN

Mijake, Ishiro

TAKAHASHI, JAPAN

Makino, Kengo

TOKIO, JAPAN

Arakawa, Bunrokn
Kuwana, Shinkai Inokichi
Mayessawa, Hatsuji
Miaké Kuchi
Mishima, Yataro
Nakano, Hatsune
Nakashima, Taizo
Sano, Shiro
Takahashi, Katashi
Yamanouchi, Shigeo
Yatsu, Naohide

YAMATO, JAPAN

Yamazaki, Shiro

YOKOHAMA, JAPAN

Messer, Paul
Oi, Hiromitsu

NAGAWA, YOKOSUKA, JAPAN

Kimura, Skunkichi
Onuki, Riojo

KANGKAI, KOREA

Bigger, John Dinsmore

SEOUL, KOREA

Lewis, Margo Lee

SONGDO, KOREA

Higgins, Daniel Franklin

SUA MOT KOL SEOAL, KOREA

Smith, Roy Kenneth

TARACOL, KOREA

Drucker, Arthur Eilbert

AFRICA

GRAHAMSTOWN, CAPE COLONY

Duerden, James Edwin

WELLINGTON, CAPE COLONY

Stoneman, Bertha

KINSHASA, CONGO BELGE

Shaler, Millard King

ASSUIT, EGYPT

Hickman, William Weldon

DURBAN, NATAL

Evans, Alfred Winter

BLOOMFONTEINE, ORANGE FREE

STATE

Robertson, Colin Charles

BULAWAYO, RHODESIA

Craig, John Walker

SALISBURY, RHODESIA

Brown, William Harvey

CAPE TOWN, SOUTH AFRICA

Dick, M. Everett

Overbeck, John Bagot

JOHANNESBURG, SOUTH AFRICA

Hoffman, Karl Frederick

Mein, William Wallace

KIMBERLEY, SOUTH AFRICA

Williams, Alpheus Fuller

PRETORIA, SOUTH AFRICA

McDonald, William

BENONI, TRANSVAAL

Nichols, John Carroll

AUSTRALIA

ADELAIDE, SOUTH AUSTRALIA

Smith, Harold Whitmore

Tassie, Robert Wilson

MELBOURNE, AUSTRALIA

Mead, Elwood

SYDNEY, N. S. W.

Barracough, Samuel Henry

Halloran, Harry Richmond

PRESENT ADDRESS UNKNOWN

Catherinet, Jules

Dickenson, Ernest Hesthote

Ferguson, William Hastings

Foote, Paul Darwin

Frudden, Conrad Edwin

Hsin Yao-Chang H.

Kiski, Teruo

Newmayer, Harry

Phelan, Robert Early

Sims, Alfred Varley

Stoppel, Ernest

Wisdom, George Paul

DECEASED

Adams, Ernest Kempton

Adler, Alex

Angle, Claribel

Anthony, William Arnold

Austen, Peter Townsend

Bailey, Frank Kelton

Banister, Joseph Ray

Barker, George Frederick

Barnes, Charles Reid

Beecher, Charles Emerson

Bell, Charles Bell

Berger, John Jacob

Bergstrom, John Andrew

Bessey, Edward Athearn

Beyer, Adam Carl

Bowser, Edward A.

Brandon, Samuel Craighead

Braun, Walter Charles Emil

Brown, Christopher Newton

Bucknell, Elmer James

Buel, George D.

Burcham, John Samuel

Burr, Rollin Hilary

Burrage, Herbert Farwell

Busekum, Richard Van

Caldwell, George Chapman

Calvin, Samuel

Carnell, Frederic James

Carr, Leonard Jarvis

Casseday, George Albertus

Challen, Thurston Walker

Chamberlin, Robert Morse

Chandler, Perley Bickfad

Chapin, George Robert

Churchill, William Wilberforce

Clark, Gaylord Parsons

Clark, Thomas Alfred

Clarke, Benjamin Franklin

Coit, Augustus

Copley, Everett

Curfman, Samuel Brice

Dahl, Hans F. M.

Dean, Willard Parker

Decker, John Wright

Dercum, Max

Dougherty, Joseph

Eberhardt, Elmer Gould

Eckler, Charles David

Evans, Myron Edward

Firth, Frederick William

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Foss, August

Freeman, Ernest Gray

Freeman, John M.

French, Orrin Fred

Fuertes, Estevan Antonio

Furber, Robert Samuel

Gause, Harry Courtland

Geer, Jennie Wither

Gelston, Louis Merwyn

Gibbs, Harley Stuart

Giblin, Arthur Leon

Gillam, Stephen Kirk

Gowell, Ralph Curtis

Green, Samuel Bowdlear

Gridley, Vernon Hill

Griffiths, Emmogene (Lilley)

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Gundelfinger, Walter David

Gunner, Daniel Webster

Hahn, Walter Louis

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Harlingen, Edward M. Van

Hellprin, Angelo

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Hendrickson, William Faithful

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 Kellerman, William Ashbrook
 Kelly, Trumbull
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 Koelker, W. F.
 Krauss, William Christopher
 Krautter, Louis, Jr.
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 Landers, Herbert Henry
 Lanphear, Burton Smith
 Little, Livingston J.
 Loderman, Ernest Gustavus
 Loomis, Clarence Edward
 Lowe, Abbot Lawson
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 McClatchie, Alfred James
 McDermott, Henry Edwin
 Magowan, Charles Scott
 Malcolm, Joseph James
 Martin, Jesse Albert
 Matthews, Charles Philo
 Maxwell, Fred Baldwin
 Meyer, Arnold William
 Miller, Edmund Howd
 Mills, Frank Edward
 Montony, Liberty Gilbert
 Moore, Clarence Stanton
 Morse, Eleanor
 Noe, Frederick
 Oliver, James Edward
 Olsson-Seffer, Pehr Hjalmar
 Orton, Edward
 Packard, Alpheus Spring
 Palecek, James Frank
 Palmer, Arthur William
 Parmeter, George Cox
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 Perkins, Maurice
 Peters, William Richmond
 Phillips, Frank Jay
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 Pomeroy, Halsey Beecher
 Pond, Raymond Haines
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 Prescott, Albert Benjamin
 Quick, Robert Winchell
 Rees, John Krom
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